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POLLUTION ABATEMENT DISPOSABILITY RATINGS OF PACKAGING MATERIALS USED ABOARD UNITED STATES NAVAL SHIPS. VOLUME II

Harold E. Achilles

Naval Ship Research and Development Center Annapolis, Maryland

January 1974

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POLLUTION ABATEMENT
DISPOSABILITY RATINGS OF PACKAGING MATERIALS
USED ABOARD UNITED STATES NAVAL SHIPS

Volume II

by

Harold E. Achilles

Prepared for the Naval Supply Systems Command Research & Development Branch Washington, D. C. 20376

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MATERIALS DEPARTMENT
Annapolis
RESEARCH AND DEVELOPMENT REPORT

January 1974

Report 4196

DEPARTMENT OF THE NAVY NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER BETHESDA, NO. 2004

POLLUTION ABATEMENT
DISPOSABILITY RATINGS OF PACKAGING MATER*ALS
USED ABOARD UNITED STATES NAVAL SHIPS

Volume II

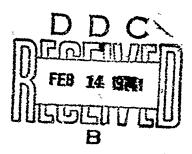
by

Harold E. Achilles



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January 1974

28-917

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DISPOSAL, SPECIAL NOTE

See volume I of this report for explanation of the contents of volume II.

It is assumed that shipboard waste packaging materials processed or unprocessed, which are to be disposed of by jettisoning, will be mandled in accordance with the guidelines and standards set forth in OPNAV instruction 6240.3C of 20 April 1973. It also is assumed that all shipboard packaging materials used in packaging of hazardous materials which are to be disposed of will be handled in accordance with NAVSUP publication 4500, "Consolidated Hazardous Item List," of 1 July 1973.

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Packaging Materials Disposability Ratings

TO CONTRACT OF THE PARTY OF THE

CAN CALL CONTRACTOR CO

ADHESIVES(1)

Applicable Spreifications	Foter to	next page	-	-	***************************************	,
Chemical Name & Compos.	Rufer to			, j		,
Common Knd Uses	. Refer to	next page		,	c	
Rouse Capability	MII					
Specific Gravity, approx	Varica, do	pending on composition,	from 0.9 to 1.5			
Bulk Donsity, 3b/fe?, a	, approx (1)					
Magnetic Susceptibility	A INII		f			
Blodegradability	Extremely	alow.	, (
Combustibility	(1)					
Heating Value, Btw/lb,	*pprox (1)	-				
Shreddability	(1)		Andrew A. A. A. Martin and Control of the Control o		***************************************	To be the second the second se
Compactability	(1)					
Bulfur, K, approx	(1)			-	in in the first of	The state of the s
	Predispos	Pradisposal Processing		Savia rugatal	tall Disposability	Rating Via
Γ	Mith	oard Processing Fensibility		Lapset	-	Storage Aboard Ship
Processing Equipment	Ease of Prehandling by Ships! Personnel	Relative Ease	Processing Equipment	Atmo- Ma	Marine Jett (Joning	for Transfer to
None	Excellent	ž	and the state of t	HA N11	1 BAGG1307E	
Compactor	frankia fartawa	(0)	14.2.	1.72		MAN TOT THE WAY TO
	Tactory	(*)	· ·			Ç.
	Unsatisfactory	(3)	NA	N.13 N.13	1 NA	N.
pactor	Unantia (actory		жA	NT THE		นา ย
	gneatidefsetory	(2)	ми	NY) NY)	_	, and
redder/Incinerator (υπολείστας τουγ	(2)	NA	NTI NTI	γ NA	NA NA

(1) Adhesives bonded to other packaging materials are considered to have substantially the same disposability characteristics as the mate-

rishs to which they are bonded.

(2) Depleted containers of potentially hazardous materials must be handled as required for removal of residual contents in accordance with appeared containers of potentially hazardous materials before disposal of emptied containers. Reference: NAVSUP Publication 4500, "Consoli." appeared hazardous tist, Storage and Handlun," 1 July 1973 (NAVSUP Publ. 4500 CHIL of 1 July 1973). It could be hazardous to shred, inchnorate, or compact depleted (including lasking) containers of adheatives because some formulations may include volatile, readily finaments solvents. Such containers should be disposed of by jettisoning (negative buoyancy required) or by storage aboard ship for eventual transfer to a shore base for further handling.

Packaging materials disposability ratings adhesives (closures).

	Remarks	į			-	•		Gradu A: subsistence frums Grade B: other than subsistence items Class 1: solvent base Class 2: wa.er- emisson		
,	Reune	III.	nî.	Níl) 12	118	NII	uin.	NII	N4.1
	. Common End Uses	Honding plastic decorative lam- instes to wood or metal	Used on soft wood, fiberboard, black or galvanized iron, glass, tin, enamel, painted & rubber surfaces	Adheaion of paper labela to subgerales	For general use	Dowel, morulam-tenon, lock, & finge: jointm	Closur, of threboard boxes	Manufacture & closure of water- proof paper bags, wraps, & cass liners	Noncritical applications where adhesive is not highly stressed; not for structural purposes, lift rafts, inflatable bosts, pontoons, etc.	To hold fiberboard containers accurely when packed in loads to prevent lateral or lengthwise sovement of containers & tubbing or impacting on each other or vehicle walls
Applicable Specifications	Matgelaj Chemical Composition	rubber in an		E	Except for synthetic rubbir, orbervion inspection	uros.	3	Composition unspecified; no toxic ingredients present	Except for rubber base, other-	Not spocified, in detail; an aqueous vegetable or resin based amateriel.
an desirant desirant des de la computation de la computation de la computation de la computation de la computa	Specification Title	Adhraive, contact	Adhosiye.; papor label, wator rosis. tant	Adhesive, papor label, water resis- tant, water egulaton type	etic cold	Adhoriva, vinyi zostate zesin omul- sion	in the state of th	1 4	Adhesive, rubber base, general pur- pose	Adhesive, for pal- lotizod unit loads
	Specification No.	XMK-A-130	898-a-178		MM-A-189		PRIN: A-250	098- 4-1001	MH-A-1617	MIL-7 -43529

PACKAGING MATERIALS DISPOSABILITY RATINGS ADHESIVES (CLOSURES) (CONE)

_				
	Remarks			· · ·
			,	1
	Rense	N1.1	N1.1	ž
THE PROPERTY OF THE PROPERTY O	Common End Uses	Structural bonding of metal, glass, plastic laminates, wood, & glass to each other & in combination	Securing shipping inbels; repairing & mending articles of cloth, wood, paper, china, glass, leather, metal, & plastir, sealing compound in manufac, .ce of amountaton	Gusket sealing where lubricante, preservative compound, or oils are apt to contact the adhesive
Applicable Specifications	Material Chemical Composition	e activa- ers, &	Collulose nitrate base	Except for rubber base, otherwise Lnspecified
			980 980	Adhesive, rubber base, general pur- pose
,	Specification No.		MIL-A-388	MIL-A-5092

CHARLES CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT

PACKAGING MATERIALS DISPOSABILITY BATINGS BAGS AND SACE?

Applicable Specifications	Refer to	next page					~
Chunical Name & Compos	Refer to	next page					Ţ-
Common End Uses	Refer to	Kt page					y -
Reuse Capability	Substant	ly nil	و المسترد المسترد المسترد و المسترد ال				-
Specific Gravaty, approx	Paper: 0	.7/1.15; microcrystalline wax: 0.9;	wax: 0.9; polyethylene:	0.92; asph	polyethylene: 0.92; asphalt: 1.05; eluminum: 2.7	m: 2.7	
Bulk Dansity, 1b/ft3, approx	арргок МА	en de como en la companya de companya de la company					
Magnetic Suscept.billi							~-
Biodegradability	Extremely	slow					-
Combustibility					,		~
Heating Value, htu/lb, approx Paper: 7		600; cellophane: 7,600; natural fibers:	7,500;	wax & polyet	polyethylene: 20,000		
Shreddability	Excellent(1)		-	**		
Compactability	ı						
Urshredded Shreddod	Fair to good Good	some spring back					
Sulfur, %, approx	Up to 0.5%						
	Prediaposal	1 Processing		Environmental		Disposability Pating Via	
Thinking Diamen	qdrus	ard		Impact		Storage Aboard Ship	
Processing Equipment	Ease of Prehandling	Relativo Easo	Effect(s) on	Atmo- Mari	Atmo- Maring Jettisoning(2)	for Transfer	
	Person	of Processing	rocessing Equipment	ophere		Shore Base	_
con	Excollent		Vi	W NII	Excellent	Š.	
Compactor	Excellent	rair to good	Ni 1	Nil Nil	Excellent	Excellent	
Shredder	L.collent	Paper: excellent(1)	N11(1)	Nil Nil	Excellent	Excellent	-
Shredder/Compretor	Excellent		N11(1)	NII NII	Excellent	Excellent	
Incinerator	Excellent	Excallent	N1.1	M11 Nil	Excellent	Excellent	
Shredder/Incinerator	Exce)lent	Excellent(1)	N11(1)	NII NII	Excellent	Excellent	
(1) Transfer on other 1st to the state of th	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-			

(1) Fracautions should be observed to avoid feeding large masses or bundles of cotton or other natural fiber sacks at one time into (2) shreddars in order to prevent jauming or clogging of equipment.

(2) Negative busyancy required.

A THE CONTRACTOR OF THE PROPERTY OF THE PROPER

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PACKAGING MATERIALS DISPOSABILITY RATINGS BAGS AND SACKS

	Remarks	Made of heavweight	paper for extra	-	A highly detailed	specification:	5 types, 2 classes,	2 styles			2 types, 10 classes,	covering a wide	range of protective	The state of the s							The state of the s		sheeting: grade 2 -	cotton Canaburg:	grade 3 - jute bur-	lap				Specification	Mevels of protection	required, sizes of	cantainers, & limi- tations on weights	of contents
	Reuse Capability	S.bstan-	tially nil	Substan-	Substan-	tially nil					Substan-	tially nil		Subatan-	tially nil	Substan-	tially nil				Culteten	tially nil	•							Substan-	· · · · · · · · · · · · · · · · · · ·			
	Comron End Uses	For irreqular shaped & heavy	hardware items	Shopping bag	Shipment of unusually wide range	of commodities; thus, asphalt,	cement, chemicals, dried glues,	fertilizers, foods, grains,	meals (cotton seed, soy, etc),	phite, rockwool), etc	Bags & envelopes for prepackag-	ing items requiring protective	packaging	Mailing of smell itums or parts		Type I: exterior packaging for	shipment of publications, small	parts, otc: type II: interior	packaging of fragile items as	bottled liquids, radio tubes,	Domestic or overtees a chiment of	supplies; pulverized, granular,	or crystalline material & of a	hygroscopic or nonhygroscopic	nature					near sealable interior packag- ing: shipping & storage under	all climatic conditions			
Applicable Specifications	Material Chemical Composition	Cellulose	·	Cellulose	Heavy duty ahipping sack, kraft	papor; cellulose; adhesive;	unidentified; thread, cotton:	cellulose; sealing compound:	typical, microcrystalline wax	2007 5007 5007	Cellophane: regenerated cellu-	Joseph		Cellulose		Kraft paper: cellulose; cush-	or loning material: unidentified			-	Two Is burlab. jute	type II: cotton, cellulose	typo III: laminated, 7 classes,	general composition -	paper: cellulose; asphalt:	hydrocarbon; textile; cotton;	polyethylener adhesive; unid-	entified	type IV: textile, cotton	polyethylene; foil: aluminum				·
	Specification Title	Bags, paper, hard.	ware	parer, chopping	Sack, shipoing,						,	e, for	packaging	3, cotton, mail-		surpping,	hicned)	reinforced			Bads, textile, ship-	burlap, cot-	terproofed	laminates					OBCC CLOSE ST	8 40				
	Specification No.	W-8-38		uv-8-0040	W-S-1/3					-	PPP-8-15			PPP-B-20		PPP-5-30				,	PPP-8-35						*		WY7B. 117			-		

PACKAGING MATERIALS DISPOSABILITY RATINGS BAGA AND SACKS (CONT.)

-						
	Romarks	-	· ·	•		
	Reuse Capalility	Substan- thally nil				
	Coamon End Uses	Packaging & packing of submis- tence items		· · ·		
Applicable Specifications	Material Chemical Composition	Paperz cellulose; textile; cellulose typical	,		-	·
		Bags () sacks for packsing aubsistence tems				
	ton	MIL-8-137				

THE REPORT OF THE PROPERTY OF

PACKAGING WATERIALS DISPOSABILITY RATINGS BARRELS ANT "T." (WOOD)

						,	1
Applicable specifications	ons Refer to nour	ಾರ್ಜಿ ಎ					. 1
Chemical Name & Composition	Refer to	- o6ad %			•	-	7
Common End Uses	Γ	It mea.					1
Reuse Capubility	All excellent	it1 deteriorated t	o rajection level		,		۲
Specific Gravity, approx		Wood; varies atth species, 0.4-0.75;	75; steol: 7.7				
Bully Danny by 15/8t3 approx	approx Na	A THE CONTRACT OF THE CONTRACT	La peala più soni si più dinaggi represamente del competenza del c				Ť
Magnetic Susceptibility	Wood: nil;	ateol: axcellent	The second se		,		
Biodeo adability	Extremol	MO			7		Ť
Combustibility	IIV. xo :pcom	nllent; steal: nil					T
Heats 19 Value, Btw/lb, approx Wood: 8,500; steel: nil	approx Wood; 8,500;	steel: nil			•		
Shraddar (litty	Word & Bernal	tal: excellent(1)					Ė
Compactability	Wood & ste 1	te li excellant			•	~	<u> </u>
·*; ****						-	
Fulfur, %, approx	Wood: 0.151	15; steel: zero				47	-
The transfer that the state of	Prediaposal	1 processing		Environmental		Disposabilicy Rathing Via	٦
	Shipbo			Impact.	(6)		Ţ.
Entphosed Disposed.	Lase of Prehandling by Shios' Personnel	Relative Rase of Processing	Effect(s) on cassing Equipment	Atmo- Marine	Jettisoning,"	for Transfer to Shore Base	
None		NA	ŧ	63 N11	Excellent	Excellent	
Compactor	Excellent(1)	Excellent(1)	N11	ML: MIL	Ercellent	Excellent	1
Shredder	Excellant(1)	Excellent		N11 N11	Bicellent	Excellent]
Shredder/Compactor	Excollent(.)	Excellent	N1.1	NII NII	Excellent	Excellent	ببنية
Incinerator	Excellent(1)	Excellent	N41	NIP NII	Excellent	Excellent	ļ
Shredder/Incinerator	Excell snt(1)	Excellent	ni 1	NII NII	Bxcr., lent	Execilent	
		111					٦

(1) Assumes that rejected containers can be fed into hoppers of valts or can be readily reduced by ship's personnel to wizes to the into feed hoppers of processing units.
(2) Negative buoyancy required.

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Packaging Materials disposability ratings Barrels and Kegs (Wood)

		F 2.8	y of setble	-		ny when trums nished rila,	barrier,		**************************************	Print The State of State of The				
		Remarks	Wide variety of Woods permissib		As above	Hoops of elm; when specified, drums shall be furnished with plastic rile,	bag liners, barrier, liting		•					
		Reune	Excellent Wide variety of until deter-woods permissible	rejection	ян врокс	Ав ароуц		- /				industrial of upon	***************************************	_
(000		Common End Uses	Shipment of nails, holts, nuts, & similar	- 1	rials or solids in bulk									
(COOX) SNOV PION (MOOX)	Material		ligain; atcel: ferrous alloys (& for hosps, wiras, cleats, nail; brads, otc	abovn	-	lignin; plywood adhesive; iddn- som tity undisclosed	• ,		-					
***************************************	Spe	Xegs, wood, slack		Barrela, Wood, Brack As	Drugg: Plywood W	F* #		-			-		***************************************	
	Specification	NN-K-231		PPP-0-41	ATL-D-112	· ·		<i>.</i> °	Mindred Region				1	

(_)

PACKAGING MATERIALS DISPOSABILITY RATINGS BARRIER MATERIALS, LAMINATES (CONT.)

	Remarks		•													Saalable, except	Classes B-1, B-2,	B-3, L-4; reinforced	with cords or	strands: clanses X-l,	E-2, L-4; abrasion	resistance when wet;	both plies; class	L-4; outer plies:	classes H-1, H-2,	(H-3(a), H-4, H-5,	1-1	-		•					^		
	Reuse	7	1								~	IN I				Subatan-	tially nii																				
Specifications	Common End Uses	91 44 6.1 hand and and 1 400 6.10	ricted parriors used inside shipping costainers									Hanufacture of co. winers for	immin it ion		•	Class	B-1 baling & interior wraps	baling &	ballng & interior	C-1 interior wraps	C-2(a) 'Snterior wraps & crate	inora	5	B-? interior wraps, crate	linors, shrouds, bal-		H.1 case lingers, shrouds,		Caso	(a) case	Š	T-C(D) case & clace fillers	L-t temporary tarpauling		ermit olde		
Applicable Specifications	Material Design	CHEMICAL COMPANY CAND	northing contring to PPP-Britony	type II: used when depth of case	as bavriers around intermediate	boxon;	type IV: an for type I & II	Lineray	clesed & wealed case liner,	seales overwrap sheet, or plas-	tic had liner protects from	Sancer celluloser apphalt:	a than	30% asphalt for cans under MIL-	C-2439 & MIR-C . 055	Kruft papor (rellulose), lami-	٠,	len (polymerte anide), cords,			<u></u>						34		-				7	•		-	
hamente, (15 pane), des la parte parte des partes de la parte	Specification	7.4.5	Linors, case, %'	water-vaparproof or				-		-		Paner, kry Ct.	posterio			Barrior material,	23.7															,					
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN THE PERSON NAMED IN T	Specification	300	MIL-L10547									MTT. P. 20203				PPP-F-1055									-							 					

enconeerabilitik

PROPERTY CONTROL OF STATE OF S

packaging materials disposability ratings darith material - netal (aliminum pole)

Applicable Specifications	Refor	to next bage	e de la companya del la companya de la companya del la companya de			***************************************
Chemical Name & Compos	Rofor .	to next page				
Common End Uses	Refer	to next page				
Reuse Capability	Refer	to next page				
Specific Gravity, appr	2.7					
Bulk Density, 15/ft3, approx	H					
Magnetic Susceptibilit						
Biodegradability		s low				
Combustibility						
Heating Value, btu/lb, upprox						
Shreddability	Exco. ent				فيقه فيعتمد يديسه بخسسة وترسيخ يستسيب ميد	
Compactability	Excella, t					
Sulfur, %, approx	Zero	NA TAN DA TRANSPORTATION OF THE TRANSPORTATI				
	Predisposal	Procousing		Environmental		Olsposability Rating Via
Γ	Shipb	pard Processing Feasible		Impact		Storage Aboard Ship
Processing Equipment	Ease of Probandling by Ships' Personel	Easo of Prohandling Relative Easo	Effect(s) on	Atmo Mar	Marino Jettisoning	for Transfer to
		ı		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4447 [544.5	1000
	excollenc	Ę		7 <u>8</u>	200TTSDX9	PXCUTTEDC
Compactor	Excallent	Excellent	N11	NII NII	Excellent	Excellent
Shraddor	Excellent	Excollent	NII	IYN IJN	Excellent	Excellant
Shrødder/Compactor	Excollent	5xcellont	NII	NII NII	Excellent	Excollent
Incluerator	Excollent	Excellent (1)	N11 (1)	KII NII	Excellent	Excellent.
Shredder/Incinerator	Excellent	6xcollont (1)	N11. (1)	ITN ITN	Excellent	Excellent

Aluminum foil is expected to mait & pass through incinerator grates into ash pits without adverse effects on unit. $\widehat{\Xi}$

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DACKAGING MATERIALS DISPOSABILITY RATINGS GARKER MATERIAL - METAL (ALUMINUM FOIL) (CONT)

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... The contraction of the state of the stat

Remarks Limited to occasional ltemn Reune Capability rpplicable in accordance with MIL-P-116. Dry annualed: For use in contact with food items & for manufacture of composite barriale materials. Slick annualed: For usws other than dry annualed. Foil 0:0005 inch & lons: For alreraft applications such as shiolding or insu-IB-2 & as greaseproof wrap where Use with method I & submethed Common End Uses lating components. Applicable Specifications Waterial Chemical Composition Aluainum Specification Aluminum foil Specification HIL-A-148

Packaghig matthials disposability aatings Darrier Materials - Plastyc

										manufacture and the second					1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Stored Alverd	for Transfer	Shore Base	SX CO	Excellon:		Excellent	Excollent	Excellant		Excel) an c
				0.90	***************************************			THE STREET, ST		**						Time Cale of	Atmo- Jottinoning(3)		Excellent	Excellent		Excellent	Excellent	Excellent		Excellent
				lypropylane			***************************************								Environments 1	Impact	Atmo-	here Marine	¥.	1 N£1		1 N11	1 Nil	NATE (4/212N	200	M11(4) N11
			التاريخين وسيواري والمراسع ومورسه وسيروان والمرازية	polyustor: 1.1; polyathylons: 0.92; polypropylons:									Park January of the Control of the C	re: nil			i	uipment	;	N3 1	-	ITN	NII	N.		
				stor: 1.1; pol				Mark Librita N's Alemania	to note (1) bylow					up to 57%; others; nil		Feasibility	986	ing Proce	\$	N11		N11(2) 	N11(2)	N17(4)	-	N11(2),(4)
1		next page	next page	15			1,0w	We be considerable to the second second to the second seco	the rotor to no	(** ************************************		AND DESCRIPTION OF A PARTICULAR PROPERTY.	hloride only: u	1. Processing	borkd Processing	Probandling Relative Ease	of Process	4	Good		Good(2)	Good(2)	Excallent	100 June (0)	Exceltenc(<)
	Rotor to	NOT TO	Refer to	Vinyl ch	Approx NA	NTY	Extremely	Excellent	approx Varies wide	Excellent/2	Good	·	100	twaywinyl o	sedfabos:	ld fug	ZASO OF PROBABILITY	by Ships' Personnel	Excollent	Excellent	* *****	Excellent(2)	Excullent(2)	2xcellent	breallant(0)	(e)
	Charles Specificacions	County End Heer	Reuse Capubility	Specific Gravity, appro	Bulk Denaity, 1b/ft3, a	Magnetic Susceptibility	Blodagradability	Combustibility	Heating Value, Btw/lb, approx Varies widely; rufor	Shraddability	Cumpactability	Unnhreddod Shredded	Sulfur, &, approx	Chloring, \$, approx		Shinboard Diemen	ىت لە		S CONTRACTOR OF THE CONTRACTOR	Compactor	d later them. To deal the state to company and		Shradduz/Compactor	Incinerator	Shredder/Incinerator E	

Heating valuas, Btu/lb, approx - polyethylane & polypropylans: 20,000; polyester: 12,800; polyvinyl chlouids: 7,800. Large bundles or masses of plartic film should not be fed at one time into st. Ad. 3 in order to avoid jamming or clogging the units.

Incineration of larga quantities of polyvinyl chloride at any one time aboard ship is unlikely to occur. However, as a precautionary newsure, this should be accided. Incineration of PVC aboard ship under normal circumstances is not expected to give rise to any operational ar environmental hazards. Megative buoyancy raquired

on the contraction of the contra

Packaging Materials Disposability ratings DARRIER MATERIALS - PLASTIC

Type I: water vapor, water, & gresse-proof; type II: water munt be greaseproof, waterproof, flexible, Only one type of bar k greasaproof; type III: waterproof Romarko Substan-tially nil tially nil Substan-tially nil Substan-cially nil Capability tiolly nil tially nil Substan-Substan Substan industrial applications General purpose packeding applit-cations where high degree of General application: waterproof covers, containers, equipage, a dust protection are required Packaging small aexonatical, missile, rocket components, & similar parts, & assemblies for making begs in accordance with MIL-B-22205 For use in automatic packaging machines general purpose packaging of military parts & equipment for storage & shipment; useful for packaging materialo Genoxel usago in packaging & water resistance, moderate moisture vapor resistance, % fabrication of envelopes for Used for interior wrap & for Common End Uses Polygater; exact composition may very dupendent on formulation Types I & II: polysthylane; type III: polysropylene Applicable Specifications Material plastic unidentified
Laminated of eylon & ionomore
nylon 6 film coated on one surface with polyvinyl chloride
Componition unspecified; must be made of such materials & by such processes so as to ensure compliance with specification; C xapouttion unapocitied; must processes which ensure com-pliance with apocitication Chemical Composition be made of materials & by Polyvinyl chloride Plastic film, flox-iblo, vinyl chloride Films, trunsparent, flexible, heat sealable, for pack-Film, plastic trans-parent, for skin greusoproof, wator. prouf, flexible, high atrength aging applications atrip, thin gage, polyolafin parkaging Darrier material, strip, colyester Plantic unset & Specification Plastic sheet & Title Speck fleation HIL-F-22191 MIL-F-45215 11-2-18-81374 L-P-375 L-P-371 1.-1-378

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high atrangth, heat menlable, & non-

corrosive

packaging of high density items

Packaging materials disposability hatings bockes - Fiderboand

	والماسان والمراجعة	A CONTRACTOR OF THE OWNERS OF	To be sufficient and controposition to the substantial production of the substantial substantial substantials	or the particular along sections of the was absorbed by the baselines and the section of the sec	Shipsish Jobysonson's columners of Columnic was 17th proximation of columns a cortain 18 About 44 probables and	المتعاقبين والمتعاقب ووالمتعاقب والمتعاقب والم	A CONTRACTOR OF THE PROPERTY O	orten min Arten Genoria II. presidentia periodenta de sensa de sensa de sensa de sensa de sensa sensa sensa se	And the state of t		entertrebliggen beganne bei der der bei der den besteht fra er besteht bei der besteht bei der besteht		A destruction of a second seco	ntall Discosability Rating Via		Jottigoning	Shore Basa	Excellent Exce	1 Excellent Excellent	1 Excellent Excellent	1 Excellent Excellent	l Excellent Excellent	I Excellent Excellent
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Management American Actions to temperature of the second o	Xt page	at page	xt page	0,7/1,151 weed: 0,4/0		llant, other component	ly alow		1rd: 7,800; wood: 8,500; 8	der der des es deue 1,40 derenaments "des mer tementals des la serie des des des des des des des des des de	- era en	(seme opring beck) (bone spring back)	stoel: nil; wax: 0.1	1 Processing	oa.d Pricenting Peasib		of Processing	NA.	Good	Excellert	Dood	Excellent	Excellent
one Refer to next	1-	Γ.			MA	Y Streel : anco	Extremely a	Excallent	Approx Pibarboard	Excel lont	and the same of th	Good (semo	Wood: 0.15;	Predictions	adius	Rase of Probandling	by Bhips' Personnel	Excel) ont	Excellent(1)	Excellant(1)	Excallent(1)	Excellant(1)	Excallent(l)
Applicable Specifications	Chemical Name & Composition	Comon End Uses	Reuse Capability	Specific Gravity, approx	Bulk Donsity, lb/ft, approx	Mugnetic Susceptiblist	Biodegradability	Compuetbillty	Heating Value, Dtw/lb, approx Plbarbon	Shreddablilty	Contractability	Unshredded	Sulfur, %, apprix		Change of Danger			921	Compactor	Shredder	Shraddor/Compactor		Shredder/Incinerator

(1) May wequite reduction in size by ship's force so that fragments fit into feed hoppars of units.

Something and the contraction of the contraction of

PACKAGING MATERIALS DISPOSPBILITY RAYINGS BOXEC - FIBERD/ARD

	rife equipmental de la managa de	Applicable Specifications	transfer en estatus est	ريدموس وفردويه ومواهد وسيق وخوفا والمقارد فقد	
Specification	Spac	Matorial Antonial	Common End Usas	Rougo	Remarks
NO	TITTO	Chemica L Componition		Capability	
PPP-0-591	Boxon, fibarboard,	Fiburboard, cellulose; woods	Packing type 1 & 2 loads only		
	Wood cleated	cellulose plus lignin; nails:	ahipment of supplios & materials		only :
		stool			type 1 & 2 loads by
					suitable interior
					packaging
569- D- 646	Box. Tiborboard	Piberboard: collulose	Covers fabrication of new fibor-		Weather rosistant &
3			Total March 1		
			משעות המעפה דזוותני מזמפינטי מ		ROBORTO STIRLINGS
			requirements for assembly, use,		,
		-	waterproofing, closure, & rein-		
_			forcing of packed boxes as		1
			ann Leakie		****
Oly-B-dda	Boyce Correspondent	Callinges, wing, contest formula	Domontic & Overnoon abitment &		
		CONTRACTOR STATE OF THE PROPERTY OF THE PROPER	Compared to consider a market of		
	CETPING WALL	rograng nastas zinc-coated or	a orage or suppries & equipment,		
		copper washed stables	Wien gross toads exceed limits		
200 0 600			06-8-4-6-10		
CC0-8-444		Cartatore	surpment or robe, nose, nouse-		1
	or eight sides		908-		
				Limited only	
MIL-8-38721	Boxes, consolida-	Cellilose	Woather resistant packaging	to occa.	Double & tripia wall
	tton, fiberboard			stonal	corrugated
				repairable	
PPP-P-120	Fiberboard, corru-	Colinioso	abrication of new fiber-	troma	
	Cotto C. Co. T. Chapter		_		
	Street & South Street		DOWLD DOWER, Lineto, bleeven,		
	Brock (container		316		
	grado) & cut shapes				
PPP-B-: 163	Rox, corrugated,	Fiberboard: cellulose; impreg-	Whore high stacking strength is		
	fiberboard, high	nating materials; wax (hydro-	required, where ulitmate han-		
-	compression strangth	compression strangth carbon); resins, unidentified	Aling atmosphere is moisture		
	water resistant.		Laden, inner profitt is lead or		
	wax-resin impreg-		wet packed, uncovered storage		
	nated		conditions prevail		
PPP-8-1364	Box, corrugated,	Fiberboard; cellulose; adhe-	Domestic & overseas consolida-		
	fiberboard, high	sives: unidentified, but water	tion shipment of general sup-		
	strength, wenther	resistant	plies, aircraft parts & mili-		
	resistant, Jouble		tary equipment; typical use:		
	(wall		shipmant of equipment, compo-		
			nents, etc from contractor to		
			depot; etc		



		**************************************											Disposability Partyce(2) Vis	Storage Aboar		Shore Base		Excellent(1)	Excellent(1)	Excellent(1)	Excellent(1)	Excellent(1)
							اجاليهاياتها موقعار فعاره بيسياناكات ويوردها والمراواة						-		Atmo- (Marine Jettlsoning(5)		Excertance	Excellent(1)	Excellant(1)	Bxcellent(1)	Excellent(1)	Excellent(1)
													Environmental	ant	Marino	1	7 7 1	LIN	Ni1	N11	N4.1	N± 1
				6		-							Enviro	CEL	Atmo- Mar	20112	<u> </u>	NII	NYI	Nil	N£1	NIL
				.75; steed: 7.7; wax: 0.9				A STANDARD OF THE PERSON OF TH	000	on thickness(1)	m thickness			11114	Effect(s) on	THE PROPERTY OF THE PROPERTY O		N(1)	N11(3)	N(1)	N11(1)	N11(1)
Kt paye	ik t. pago	we pago	at page	Wood: varies with species, 0.4-0.75; steel: 7.7; wax;		scellent; others; nil	low	others; excellent) studli nil; wax: 20,	Wood: excellent; steels dependent on thickness(1)	tool: varies, depending on thickness	Wood: 0.15; steel: sero	Predispourl Processing	oard Processing Feasib	ing Rolativo Ease	5		Good(1)	Excellent(1)	Excullent(1)	Excellent(1)	Excollant(1)
٦	ī				prox NA	Steel; exce	Extremoly a	Steel, nil	pprox Wcod; 8,500	Wood: excel	Wood & stee	Wabd: 0.15:	Pred & poss	Shipb	Person			Excellon*(I)	Excellent(1)	Excellent(1)	Excellent(1)	Excollent(1)
Applicable Specifications	Chemical Namo & Composition	Common End Uses	Rouse Capability	Specific Gravity, approx	Dulk Density, 1b/ft3, approx	Magnetic Susceptibility	Biodugradability	(continuation they	Benting Value, Btu/15, approx Mcod: 8,500; studl: nil; wax: 20,000	Shreddability	Compactabllity Unshrædded Shredded	Sulfur, %, approx		Chinbon rd Dienosa	ų	None		Compactor	şirpeddur Exc	Shrædder/Compactor Ex	Incinerator	Shiedder/Incinerator Ex

(1) Dogs not apply to deteriorated ateal containers which 'xo too large to be prehandled by ship's personnel or handled with shipboard disposal processing equipment.
(2) Applies only to packaging deteriorated to rejection lavel.
(3) Negative buoyancy required.

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PACKAGING MATERIALS DISPOSABILITY RATINGS BOXES, OTHER THAN ALL, WOOD BOXES

Specification Specification Chemical Composition accurate the specification of high density procedure that the specification of high density and the specification of high density of the specification of high de			Applicable Specifications	teritoria de la compania de la comp		
Trient process metal, ship density processing the process metal, ship density transporter; steel transporter	Specification	Specification	Material	-	Reuso	Remarka
Doces, metal, abip- Boows, consolidation of high density Excellent Boows, consolidation of highin; For densetting being consolidations Boows, colorated proof; collulose + lignin; For densettic & vorceasis loads beta denses loads beta dense could be discussed to be di	No.				Capability	
transporter, steel max, last 9,000 lb Bower, wood clarted, wood clarted, wood clarted, bear and progressive and plywood; collulose + lignin; least the food;	MIL-B-11886		Stool	_	Excellent	
skidded, land—section wood; callulose + lightin; section security & philosoperate and skidded, land—section of cleated, wood; callulose + lightin; section and a load-bearing base high a stephon; callulose; section section and section of celled stephons; section		ping, reusable,		military & quasi-military cargo		
Boxes, Bilpping Wood; collulose + lignin; Por demestic & corress Loads Excellent a Midded, load - plywood; callulose + lignin; Load the ligh of the control of the co		transporter, steel;		when security & pilferage are		
Boxes, wood cleated, Mood: callulose + lighin; prover 16 ftp to be used for hils, ataphda; came tooted teams in the deal took of the wood of the second teams with care be attached to came took of teams which can be attached to came took of teams with the assemble with the assemble with a strapping; atool assembly for demostic A overse callulose + lighin; assess shipmonts assembly for demostic. A overse callulose + lighin; assess shipmonts assembly for demostic. A overse callulose + lighin; assess shipmonts assembly for demostic. A overse callulose + lighin; assess shipmonts assembly for demostic. A overse callulose + lighin; assess shipmonts assembly for demostic. A overse callulose + lighin; assess shipmonts assembly for demostic. A overse callulose + lighin + weather remirtance and a callulose + lighin + weather remirtance and a callulose + lighin + weather remirtance and low cash of callulose + lighin + weather remirtance and low callulose + lighin + weather remirtance of high callulose + lighin + weather remirtance of high-demandary when high light is a maniful light is a lighin + lighin + weather low callulose and light look light		max load 9,000 in				
Boxes, shipping Mood: collulose + lignin; lates then 2,500 D& diamentan on the core in its ataphons coment coated tens which can be attached to naise attached to the monutable, tamber; plywood; paper overlaid for repeated assembly & distance of tens which can be attached to assemble with versor; callulose + lignin; sass shipmonts and strapping; stool Mood: collulose + lignin; sass shipmonts requiring limited Boxes, shipping Mood: collulose + lignin; Modular size shipmonts requiring limited Box. match; consolida Mood: collulose + lignin; Modular size shipmonts requiring limited Item annotated low carbon steel; Modular size shipmonts requiring limited Box. match; consolida Mood: collulose + lignin; Modular size shipmonts requiring limited Item annotated low carbon steel; Transportation of high-density Box. match; controled Mood: collulose + lignin; Transportation of high-density Box. match; consolida Mood: collulose + lignin; Transportation of high-density Box. match; consolida Mood: collulose + lignin; Transportation of high-density Box. match; consolida Mood: collulose Mood: collidar size shipmonts Box. match; consolida Mood: collulose Mood: collidar size shipmonts Box. match; consolida Mood: collulose Mood: collidar size shipmonts Box. match; consolida Mood: collulose Mood: collidar size shipmonts Box. match; consolida Mood: collulose Mood: collidar size shipmonts Box. match; consolida Mood: collulose Mood: collidar size shipmonts Box. match; consolida Mood: collulose Mood: collidar size shipmonts Box. match; consolida Mood: collulose Mood: collidar size size Box. match; consolida Mood: collidar size size Box. match; consolida Mood: collidar size size Box. match; consolida Mood: collidar size size Box. match; consolidar Mood: collidar size size Box. match; consolidar Mood: collidar size Box. match; consolidar Mood: collidar size Box. match; consolidar Box. match; c	C6702-8-114	Boxes, Wood cleated,	Woods collulose + ligning		Excellent	
Documentable, Lamber, Julyocod, page regulation to a control of control of the standing base of control of con	-	BKIGGEG, 10ag-	prywood: cellulose + lighth;	lecs than 2,500 lb & dimension		
Boxes, demonstrable, butter store of the sto		Dearing Dase	riperbarat cellulose;	not ever 16 ft; to be used for		
Boxes, demonstable, Lumber, playoned pages vietated assembly to the same antipolar strapping; stool nails or acress antipolar callulose + lignin; seas shipmonts Boxes, shipping wood; collulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - playood; callulose + lignin; washer ronkrunce Linarts, consolida - lignin; washer ronkrunce Linarts, consol			nalls, staplos: coment coated	itoms which can be attached to		
Assembled with Assembly & dis- Assembled with frequency cumbur, playcood, paper overlaid for greet assembly & dis- Assembled with frapping; steel Boxes, shipping wonger; callulose + lignin; seas shipments Boxes, shipping hood; collulose + lignin; hoodiax size shipments revulting inmited that the minimal confidence of the callulose of light hooding agent; the confidence of the callulose of light hooding agent; the confidence of the carbon steel; the carbon		П	otched steal; bolts: steal			
Assembled with vorocz cellulose + lignin; seas shipmonts seas shipmonts assembly for domesti. A covr- nails or acrew; Boxes, shipping wood; cellulose + lignin; seas shipmonts righting immited transfer consolida - plywood; cellulose + lignin; wather reafted boding squest; wather reason steed; liberboard boxes; wax imprag- Box, metal, shipping kow carbon ateal reason tend; liberboard boxes; wax imprag- Box, metal, shipping kow carbon ateal reason tend; liberboard boxes; wax imprag- Box, metal, shipping kow carbon ateal maining agent; with a minimum amount of pre- capacity; 270 tt? capacity; 270 tt. c	HIL-8-26241		Lumber, plywood, paper overlaid		Sxcellont	Type It domestics
Fastenore other than strapping: stool nails or serous Boxes, shipping Wood; collulose + lignin; tion tidentified bonding agent; Alter, annohaed low carbon steel; tibertoard boxes; wax impreg- Box, match, shipping, low carbon; stool thundid tidentified bonding agent; Alter, annohaed low carbon steel; tibertoard boxes; wax impreg- Box, match, shipping, low carbon; stool thundid ty carbon; stool tibertoard boxes; wax impreg- military & quasi-military cargo porter, controlled hundid ty reausable, trans- porter, controlled hundid ty capacity; capacity	•		verser: callulose + lignin;	assembly for domesti: & ovir-		type II: oversas;
Boxes, shipping Wood: collulose + lignin; Modular size shipments reviuiting Limited treats, consolida - plywood: callulose + lignin; waather renifrance ton unidentified bonding agent; ulter annended low carbon steel; fiberboard boxes; wax irpreg-spates, trans-portext, shipping, Inw carbon ateel; remaportation of high-density excellint military & quasi-military cargo with a minimum amount of presents occurred to a minimum amount occurred to a		than	strappi	seas shipments		class 1: plywood
Boxes, shipping Wood; colluiose + lignin; Modular size shipmonts raquiring ilmited tion that then unidentified bonding agent; then wather rendrance that the bonding agent; was injected; controlled low carbon steed; the seasols, transportation of high-density expected; controlled bonding agent; and the seasols, transportation of high-density expected; controlled bonding the seasols, transportation of high-density expected bunding low carbon steed bunding are to be maintained at the properties are agently; 270 ft? max load; 9,000 lb provert correspond are are major considerations form pil-ferage are major considerations						panel; class 2:
Boxes, shipping Wood: colluiose + lignin; Modular size shipments requiring ilimited tites ts, consolida - lignin; wather renictance build bonding agent; with a minimum amount of presentable, trans-preter, controlled humidity; and the carbon ataol mature of practice of transportation of high-density Excellent porter, controlled humidity; and the carbon ataol mature of practice apacity; 270 tt? max load: 9,000 lb capacity; 270 tt? controlled max load: 9,000 lb capacity; controlled capacity						paper overlaid vancer
Hodular size shipping wood: collulose + lignin + weather renirtance tion unisertified bonding agent; Wather sone by yood cellulose + lignin + weather renirtance unisertified bonding agent; With a minimum amount of prevents on troiled two carbon atea; Box, metal, shipping low carbon atea; Reasporter, controlled wo carbon atea; Box, metal, shipping low carbon atea; Reasporter, controlled two carbon atea; Box, metal, shipping low carbon atea; Reasporter, controlled two carbon atea; Box, metal, shipping low carbon atea; Reasporter, controlled two carbon atea; Box, metal, shipping low carbon atea; Reasporter, controlled two carbon atea; Box, metal, shipping low carbon atea; Reasporter, controlled two carbon atea; Box, metal, shipping low carbon atea; Box metal, shipping limited low carbon			·			panel; class 3:
inserts, consoida- tion tion tion tion unisentified bonding agent; unisentified bonding agent; fures annohold low carbon steel; fiberboard boxes; wax inpreg- Box, metal, shipping, Low carbon steel porter, controled hundity; capacity: 270 ft? mex load: 9,000 lb provent corrondon; also, security & protection from pil- reuses aux- reuse aux- reuses aux- reuse aux- reuses aux- reuses aux- reuses aux- reuses aux- reuse aux- reuses aux-	MIL-8-43666	Boxes, shipping	Wood: collulose + lignin:	Modular size shipments phinitring T	- mitted	CANAL DAMES
unidentified bonding agent; Mire; annouled low carbon steel; fiberboard boxes; wax impreg- Box, metal, shipping low carbon steel reusable, trans- prated Dox carbon steel Transportation of high-density reusable, trans- humidity; capacity; 270 ft2 mrx load: 9,000 lb prover controlled mrx load: 9,000 lb prover controlled prover controlled prover considerations prover correction from pil- forage are major considerations		Irearts, consolida-		Weather restrance	5	
Wire; announced low carbon steel; fiberboard boxes; wax impreg- fiberboard boxes; wax impreg- fiberboard boxes; wax impreg- freusable, trans- porter, controlled humidity; capacity: 270 ft3 mrx load: 9,000 lb mrx load: 9,000 lb forcet controlled forcet force maintained to be maintained to prevent corronion; also, security & protection from pil- force are major considerations		ton				
Ebberboard boxes; wax irrineg- Box, mstel, shipping, now carbon steel reusable, trans- porter, controlled humidity; capacity; 270 ft2 mex load; 9,000 lb provent corronion; also, security & protection from pil- ferage are major considerations			wires annealed low carbon steals			
Box, metal, shipping low carbon steel reusable, trans- reusable, trans- porter, controlled hundity; capacity; 270 ft2 mex load: 9,000 lb provent corrollon build ty to be maintained at 405 meximum relative humidity to provent corrollon; also, security & protection from pil- ferage are major considerations			fiberboard boxes, wax impres-			
Box, metal, shipping low carbon steel reusable, trans- porter, controlled hundity: controlled hundity: 270 ft2 capacity: 270 ft2 mex load: 9,000 lb provent corrollon be maintained at 405 meximum relative humidity to provent corrollon; also, sacurity & protection from pil- ferage are major considerations	-		nated			
military & quasi-military cargo with a minimum amount of pre- servation & packaging whon nature of cargo requires sur- rounding air to be maintained at 40% maximum relative humidity to provent corronion; also, security & protection from pil- ferage are major considerations	MIL-E 52508	Box, metal, shipping,	Low carbon steel	_	excellint	
with a minimum amount of pre- servation & packaging whon nature of cargo requires sur- rounding air to be maintained 40% maximum relative hum/dity provent corronion; also, security & protection from pil feruge are major consideration		reusablo, trans-			٠٠.	
servation & packaging whon nature of cargo requires sur- rounding air to be maintained ### ### ############################		porter, controlled		with a minimum amount of pre-		
270 ft ² 9,000 lb foot maintained foot mainta		humidity		Bervation & packaging when		
socurity & protection from place of pastmined 40% maximum relative hum'dity provent corronaton; also, socurity & protection from pil forage are major consideration.		capacity: 270 ft3		nature of cargo requires sur-		
40% maximum relativo hum'dity provent corronion; also, security & protection from pil feruge are major consideration		mex load: 9,000 1b				
provent corronion; also, security & protection from pil- ferage are major considerations				405 maximum relative humidity to		
foruge are major considerations						
forage are major considerations				security & protection from pil-		
				ferage are major considerations		
		-				
		-				
					_	

PACKAGING MATERIALS DISPOSABILITY RATINGS BOXES, PAPERBOARD

	_	Refer to next page Refer to next page				
Reuse Capability	╁	Only for occasional returnable	itom A OF			
specific starty, appr		· / transe (Cr•y/)•n :				
Bulk Danaity, 1b/ft', ap	žož	NA Stool: ovenlant: other compensation	14.11			
Biodegradability	Ť	Blow				
Combustibility		Excellent	nade friencestant de la magaza armas franchestanten james para de marchestanten de marchest			
Heating Value, Btu/Ib,	approx	7,800; Steel: Nil;	Wax: 20,000			
Shreddability	Excellent	يددارية جاجد مستهدي ويستهدين ويستهدا				
Compactability Unshredded	Good; sume spring some spring back	spring tack g back			aria jakarania - ess vestera parez de sullanda de la composição de la comp	
Sulfur, %, approx	Rood: 0.15; stee	g back ; steel: nil; wax: 0.1	1			
	Predisposa	l Processing		Environmental		Disposability Rating Via
	Pane of Prehandling Relative Page	Pard Processing Figs.	Fansibility	Impact	1	Storage Aboard Ship
Processing Equipment	by Ships' Personnel	of Procussing	-	_	ng.	
Kone	5xcellent	NA		LIN VN	[] Excellent	Excellent
Compactor	Excellent	Good	NII	NII NII	II Excellent	Excellint
Shrodder	Excellent.	Excellent	N11	NII. WII	I Excellent	Excellent
Shredder/Compactor	Excellent	Good	NI	NET NET	l Excellent	Excellent
Incinerator	Excellent	Excellent	ні	TIEN TEN	1 Excellant	Excellent
Shredder/Incinerator	Excellent	Excellent	NII	N11 H	Wil Excellent	Excellent
Shredder/Incinerator	Excellent	Excollent	Mil	1	 	EXC

Packaging material. Disposability ratings Boxes, Paperboard

	Remarks		Raperbourd not less than 95%, unbleached (kraft) fiber	May be chemically true ted or have liner	1
<u> </u>	Reuse		Only for	returnable itcm	
	Cumon End Uses	For content not greater than 20 lb; only for articles not easily susceptible to damage by ordinary distortion of box due to external force action during shipment	Intermediate containers; pro- vide protection of contents and/or convenience of headling	Describes new setup boxes & closure of filled boxes; grease & water resistant; may be used for food packaging	For contents not greater than 20 lb; for shipments requiring protection from water; for packaying items in boxes, & comparable styles, types, & classes of existing specifications to a greater advantage
Applicable Specifications	Material Chemical Composition	Gallulose	Paperboard: cellulose; stays: cold rolled steel, lac- quered	Paporboard: collulose; adhesives: wax type; chemical treating agent other- wise unidentified	Paperboard: cellulose; stays: cold colled steel, lac- querad; adhesive: water-resistant; otherwise unidentified
	Specification Title	вокев, folding, papurboard	Boxes, paperboard, metal stny (includ- ing stay material)	Boxos, setup	Boxes, watur- remistant, paper- board, folding, satup & stayed
	Specification No.	PPP-B-566	PPP-B-665	978-8 -676	MIL-E-43014

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Packaging Materials Disposability Ratings Boxes, Hood

Particular Andreas and a superior of the super

Applicable Specifications	ions Rafar to next page	next page	and the second period of the second period of the second o				
Chemical Name & Compor	_	next page					
Common End Uses	Roffer to	next page	-				
Reuse Capability		rited to	rejection level				
Specific Gravity, approx	Woods	varies with species; 0.4-0.75;	0.75; steel, 7.7				
Bulk Donsity, lb/ft, approx	approx NA					***************************************	
Magnotic Susceptibulity	Wood: Ni	1; steel: excellent					
Biodegradability	Extremel	y slow					
Combustibility		Wood: excellent; metal: nil					
Heating Value, Btu/lb, approx		500; steel: nil					
Shreddabilitz	Excelient						
Compactab/lity	Exce) lant	-					
Sulfir, %, approx	Wood: 0.	O.15%; steel: nil			-		
The state of the s	Prediaposa	Prediaposal Processing		Environmental	nental	Disposaril	Disposability Rating Via
	ad j 4S	oard Processing Feasib		Impa	رد		Sturage Aboard Ship
Processing Equipment	Ease of Prehandling by Ships! Personnel	ng Relative Base	Effect(s) on cessing Ecuipment	Atmo- Mar	Marino	Jattisoning	for Transfer to
None	Excollent	ž	NA	ž	Nil	Excellant	Excellent
Compactor	Excellent (1)	Excellent (1)	TIN		TIN	Excellant	Excellent
Shreddor	Excellent (1)	Excellent (1)	NII	i —	NII	Excellent	Excellent
Shradder/Compactor	Excellent (1)	Excellent (1)	ITN	1.	NII	Excellent	// / / / / / / / / / / / / / / / / / /
Incinerator	Excellent (1)	Excellent (1)	N.L.I.	Wil	N3.1	Excellent	Excellent
Shredder/Incinerator	Excollent (1)	Excellont (1)	N11	NTI	N11	Excollent	Excellent

Bo as must be reduced by ships personnel to sizes sufficiently small to fit into feed hoppers of processing units. Ξ

TO THE REPORT OF THE PROPERTY OF THE PROPERTY

AND THE PROPERTY AND THE PARTY OF THE PARTY

PACKAGING MATERIALS DISPOSABILITY RATINGS HOCKS, WOOD

	Penarks	Good, until Four groups of deteriorated species of woods for to rejection wood cleats are it identified		Good, will Four graps of deteriorated species of woods for to rejection wood clasts are level identified	1
	Reaso Capsbility	Good, until deteriorated to rejection le.el	Good, until deteriorator to rejection level	Good, wrill deteriorated to rejection level	Good, until deteriorated to rejection level
	Cosmon End Page	claus 1: normal domestic shipments when additional strongth of class 2 box is not required; class 2: for off-shore & overseas shipments where rough handling, variable strage, & climatic extremes conditions prevail	Entyment of household goods	Demostic-type boxes for nexmal use when additional strength of overseas box is not roquired; weight of contents: 150 lb wax; overseas-type boxes; weight of centents - 1,000 lb max unless permitted by procuring agency	Shipping containers, dosestic
Applicable Specifications	Material Chemical Composition	Mood: cellulose + lignin; paper: celluloso	Wood; calluloss + lignin	Moud: cellulose + lignin; plywcod: cellulose + lignin + unidentified bending agent, water r. sllant wood preserva- tive; nails: cesent coated, Acid etched; staples & wires:	Mood: τηλιοθε + lignin; nails, τέτακ, & simples: steel
	Specification *itie	Boxes, wood, cleated, vender, paper overlaid	norse, wood, houre-	Boxes, wich, cleated-piywyd	Boxes, wood, nailed & lock corner
	Specification No.	з г рв -576	985-8-444	PPP-B-601	FPP-B-(21

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PACI AGING MATERIALS DISPOSABILITY RATINGS

BOXES, FOOD (WIREBOUND)

				BOXES, VOOD (WIREBOUND)	***************************************	***************************************			
Applicable specifications	ons Refer to	_ 3	next page						
Chemical Nume & Composition	sition Rofor to		noxt page						
Common End Uses		to nex	t page						_
Reuse Capability		unti!	Good, until deteriorated to rejection	rion level					
Specific Gravity, appress		varie	varies with species, 0.4-J.75; stadi:	,75; stool: 7.7				1	
Bulk Dongity, 15/ft, approx	approx NA				-	-			
Magnetit Susceptibilit	L	n11;	wet excellent						
Biodegradability		cly al						international designation of the state of th	
Combustibility		oxcel	oxcellent; metal; nil						
Heating Value, Btu/lb, approx		.	1,500; motal: nil						
Shreddability	Excel	ىدا		AND THE PROPERTY OF THE PROPER		A AND CHICKMAN SERVICE	بالمستعدد والمراجعة والمراجعة والمراجعة والمستواد والمراجعة		
Compactability	Excellen	1ent (1)	Contains of the state of the st						
	<u></u>			← -					
Sulfur, %, approx	Wood:	ľ	.15%; steel; ril	and to some columnation with particular in the fact that the columns is a second of the columns and the columns and the columns are columns and the columns are columns and the columns are columns ar					
	Prediapo	врома1	Mal Procenting		Environ	mental.	Disposabi	Disposability Rating Via	
Shipport		Shipbon	rd Processing Peasios		EdmI	20		Storage Aboard Ship	
۔۔۔۔	Ease of Prehandli	dling onuel	ing Relative Ease	Effoct(s) on cosping Equipmen	Atmo-	Mazine	Atmo- Maring Jettisoning	sfer	
None	Excollant		Ki	МА	N N		Bxcellent	Excellent	
		1						-	
Compactor	Excellont		Excellent (1)	Z T	ci Ž	NI I	Excellent	Excellent	
Shraddor	Excellent		Excellent (1)	N11	TIES.	NII	Excellent	Excellent	
Shradder/Compactor	Excollent		Excollent (1)	WII		CIN	Excellant	Excellent	
Incinerator	Excollent		Excellent			LIE	Excellent	Excellent	
Shrodder/Incineretur	Excellent		Excellent (1)	Níl	LIN	NET.	Excellant	Excellenc	
The state of the s		-		The state of the s	1	1			

Theoding large bundles or long lengths of wire at one time into compactor or shredder should be avoided in order to prevent interrupting operation of unity.

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WIREBOUND) WIREBOUND) Shigments, domestic & overseas, docd, untid of loads lass than 4,000 lb, & deteriorated on tregularing protection of to rejector of shipments, domestic & overseas, docd, untid of simplies & marrials not to rejector details sheathed creates tion level exceeding 2,500 lb; to rejector details whether she to rejector details and the restors, domestic & overseas, docd, until of sipplical items: batteries in to reject to reject to reject the restors, domestic she was in our to reject the restors, domestic she was in our the load in the rest in motel care, hardware in our then level care, hardware in our matchine parts Machine parts	Rouse Capability & Goda untid deteriorated to reject tion level detariorated to xoject tion level	Specification Specif	PACKAGING MATERIALS DISPOSABILITY HATHKGS DOTES, WODD (WITZEDLUND) TILLS WOOD (WITZEDLUND) TILLS WOOD (WITZEDLUND) TILLS WOOD (WITZEDLUND)	The second secon	rko			
Uses 2 & overgeas, 4,500 lb, & settion of action a	**RAGING MATERIALS DISPOGABILITY HATINGS BOXES, WOOD (WIREBUUND) ### Example of Common End Uses ** Lighth; ** A	Specification Specification Specification Specification Chamical Composition Buxes, wood, .vire- Mood callulous + lighin; Buxes, wood, .vire- Mood callulo	PACKAGING MATERIALY DISPONDELLTY HATINGS BOXTES, WOOD (WITERLIATOR COMMOND ENG USES) TILLE THE COMMOND ENGLAGE COMPOSITION BOXGG, WOOD, "WITER THE STATE OF T		Rema		- u -	,
Disposability Hatings Wirebund) Common End Usas Shipments, domestic & overgass, of loads lass than 4,000 lb, & not requiring protection of closed or fully sheathed crates of supplies & metarials not exceeding 2,500 lb; typical items; battorias in cartons, chasts, kits, boxed instruments, hardware in cartons, goods in metal, cans, machine parts	ECRES, WOOD (WELS, WOOD (WELS, WOOD (WELS) ESPECIALISM Tonnouled stral; Tannouled stral;	Specification Specification Specification Specification Applicable Specification Titls Eucos, wood, wire- Mood collulose + lignin; Aro; low carbon annealed steal; atapies; galvanized low carbon Syxes, wood, wire- Hoodi paliet type nails; steel; Aro; low carbon annealed steel; Aro; low carbon annealed steel; Aro; low carbon annealed steel; arodi, paliet type nails; steel; steel steel	PACKAGING MATERIALS DEOTES, WOOD (W Specification Applicable Specification Titls Hearls Composition Hearls wood, "Tre- Wood callulose + lighin; Wood, "Aro, low Carbon annealed steal; stappes, wood, wire- Wood collulose + lighin; wood carbon steel; wood, wire- Wood collulose + lighin;		Rouse Capability Good, untid deteriorated to reject tion level	Good, until - detarlorated to rojec- tion level		-
	PACKAGING MATERIALS BOXES, WOOD (I MATERIALS WOOD (COLULION + LIGHIN) WASO, NOW CREDON anneuled steal; Stapies, galvanized low carbon Stapies, galvanized low carbon Stapies, galvanized low carbon Wood; collulose + Lighin; Wite: Low carbon annealed steel; wise: Low carbon annealed steel; stapier; galvanized low carbon stool	Specification Title Boxes, wood, "ire- Mood; cellu bound Wires, wood, wire- Wood; collu Bound, pallet type malls; ates wites low r wites low r	Specification Specification Title Boxos, wood, "ire- Woods collubourd Wiros, wood, wire- Woods collubound, pallet type wires low collubound.	DISPOGABILITY HATINGS Herebund)	Common End Usas Shipments, domestic & overgeas, of loads lass than 4,000 lb, & not requiring protection of closed or fully sheathed crates	Shipments, domestic & oversehs, of supplies & metentals not exceeding 2,500 lb; typical items; batteries in cartons, chasts, hits, boxed instruments, hardware in cartons, goods in metal cans, machine parts	:	

PACKAGING MATERIALS DISPOSABILITY RATINGS BULK PICKAGING MATERIALS

CTROCKED CONTROL OF THE SECOND CONTROL OF TH

A PROPERTY OF ANALYSIS OF THE PROPERTY OF THE	varies depending on plastic, 0.91-1.45; ilberboarde	and in the second s Second second	varies depending on selection;	erinas mas e de entre	des des productions de la factor des	0.15%	Disposability Rating Via		Jettisoning for Transfer Shore Base	Excallent Excallent	Excellent Excollent	Excellent Excellent	Excellent Excellent	Excellent Excellent	Excellent Excellent
	pending		11			0.15%; paper:	Environmental	npact	Atmo- Marine	T. W.	LEM	TIN .	NI 1	NE.1	N11
	p caj		lantic			.13%!	Find	=	Atmo	<u> </u>	LIN	L IN	LIN	MII.	N11
ele mententa de la forte desenvalue de la companya de la companya de la companya de la companya de la companya Independente de la companya de la c Independente de la companya de la co			8,500; paper, 7,700; plantic film;	andere d'établique d'établique qu'in partie de la company de la company de la company de la company de la comp	Area de Area d	1-6.5%, fiberboard:		. 1	Effect(s) on Processing Equipment	NA	NII	N(1 (1)	1 N11 (1)	NTT	, (t) tin
DUXE DAGG	varies apecies	To the state of th	익성	4,500-19,600	fair; others: excellent good: others: excellent	lantics	Pr	oard		复	Plastic: fair; Others: good	Excellent (1)	Plastic: good (1) Others: excellent (1	Excollent	Excellent (1)
Refer to	Rofor	NI I	Excellent Paperbons	Excellent	1	Wood: 15	Prodiaposni	al the	Enso of Prohandling by Ships' Personnel	Excellent	Excellent	Excallent	Excellent	Excollent	Excellent
Applicable Specifications Chemical Namo & Composition Common End Uses	Renso Capability Spacific Gravity, approx	Bulk Density, lb/ft, approx Magnetic Susceptibility	Combustibility Excellant Heating Value, Btu/lb, upprox Paperbeard:	Shraddability	Cimpactability Unshredded Shredded	Sulfur, %, approx	,	Shipboard Diagonal	souing Equipment	Nonv	Compactor	Shraddor	Shraddor/Compactor	Incinerator	Shredder/Incinctator

(1) poeding large bundles or masson of plastic film at one time into shredder should be avoided to provent clogging or jamming

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PACKAGING MATERIALS DISPOSABILITY RATINGS BULK PACKAGING HATERIALS

			THE STATE OF THE S	*	тур (1996—1996) — 1996—1996—1996—1996—1996—1996—1996—19
	Remarks				
	Rouse	Occasional -	Occasional only	Limited to occusiona; returnable itoms	Occosional on Ly
DISPOSABILITY RATINGS	Common End Uses		Combination wood & paper panel materials, container grads; type I: for normal uso; type II: for extra protection during shipment & storaye	cos, par- riety, scifi-	Mindows, Gabrit, tops, ducks, & fabric covers for military vehicles & similar applications
PACKAGING	Applicable Specifications Material Chemical Composition	Callulono + 11qnin + unspec- ified bonding meterial	Wood: colluiose + lignin; papor: colluiose; adhosive: unspecified; glue, type II, paper overlaid there shall be adend 5 lb of one of the following - pentachlor phenel, tetrachlor- plumic, sodium pentachlor phunnte, or sodium tetrachlor phunnte, or sodium tetrachlor		Idontity of plastic may vary as selected by supplior
	Specification Title		Vancer, papor over- laid, containor grado		Finetic film: non- rigid, transparant
-	Specification No.	NN-P-530	PPP-V-205		MIIP-14591

Packaging materials disposability ratings bulk packaging interials (cont)

COMMON MIND USED (PPP-F-320)

Fiberboard is used in the fabrication of boxes, pads, sleaves, bux liners, partitions, and cut shapes. The types, classes, varieties, and grades of fiberboard shock stock covered in 1.2.1 of this specification are used for fabricating boxes in complian. With the specifications cited boxes box specification is cited in the ordering data (see 6.2), any additional fiberboard requirements spicified in the box specification whall also apply. In cases of conflicting material requirements, the box specification shall prevail.

뭐

Cype	Class	Variaty	Grades	Max apecification
ລີ	Domentic	*5	125, 175, 200, 275, 25	969-8-44d
à	Domantic	35	200, 275, 350	PPP-8-591
ð	Domestic	36	275	519-B-444
b	Dokastic	M	All grades	969-W-ddd
ů	Wenther-resistant	346	V3c, WSc, WSc	969-8-8dd
ŝ	Weather-resistant	苦	vile, vize, vise	929-8-44d
20	Domestic		All grades	PPP-8-636
a s	Domestic		200, 275, 350, 375	PPP-B-591
S.F	Domestic		275	PFP-#-645
N.	Weather-resintant		V28, V38, Vits, M5s, W6s	PPP-D-636
48	Westhor-resistant		VZ#	PPP-8-645
D. C.	Westher-resistant		製い書	サチザー 第一のなり
Ç	MONTH	M 5	All grades	PPP-B-636
Ċ	WWW	MG	All grades	25-8-844
ð	Woather-rasistant	MS	V%c	MIX8-47273
ຍີ	WICH	36	Vyc. WWVR	MXX-4-43275
Ç	Domestic	25	200, 275, 350	MCR8-17757
Š	Domestic	š	200, 275	MIX-8-17757
20	Meather-resistant	33	Vys. Hys. W6s	MCL-B-17757
å	KANA	753	VZC, KHURS MSC, MWVRS MSC, MOVR	MII8 -17757
ð	Westhor-resistant	340	V15c	MCI8-17757
້ະ	RINTUR	*	V150, MIVR	NIL-8-17757
A. C.	Wenther-resistant	-	V24, V3e	MXX-8-17757

Tending to the contraction of the property of

Packaging materials disposability rrtings

Applicable Specifications	-		CANS			
Chomical Name & Composition	+	Rafer to noxt page	eritare estimate de la companya del companya de la companya del companya de la companya del la companya de la c			
amon End Uzen	Refe	ir to next nace			***************************************	
udo Capability	Z		remains a firm that a service manufacturary and respectively by the service of th			
meific Gravity, app	X F	rboard, puperboard & papar, 0.7-1:15; aluminum:2.7; stuel: 7.7; asphalt; 1.05	0.7-1:15; aliminum:2.7:	stuel: 7.7;	agphalt: 1.05	
1k 0 insity, 1b/ft2,	2		The state of the s			
gnotic Sueceptibili	Stee	1.0	n v (n) v . v ()	Belon bendumblings de descendant barry		
odwyradability	Extr		TELEST WILLIAM			
Combustibility Heating Value, Btu/lb, approx	Figt	ili Nili all other materials; excellent	7,800; paper: 7,700; ago	18 000		
reddability	+1011000011	100+		000102 :01		
Compactability	(1) 8xce	Sxce llunti natalu; good: fiberboard	rboard			
Bulfur, & approx	P. harron	, , , , , , , , , , , , , , , , , , ,				
		control of 1999 in the control of 1989 paper 0.15; anyhalt; up to 7.5%; metal; N.1	157 paper 0.15; anphal	i up to 7.5%;	metal: Nil	
	Drentand	Laponal Preconsing		Environmental		1 Chil Datitace 114
Shipboard 2/4 spous	and	poorti Processing Peasing	1	Inchet		Store Store Store
Processing Equipment	East of Prehandling by Ships! Personel	ng Rolativo Ensu	Stteet(s) on	Atmo- Harine Jetti soning	Jattinoning	for Transfer to
Hone	Excellent	Ž	THE PROPERTY OF THE PROPERTY O	apport		Shore Base
	·~		•	1 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Excellent	Excellent
Compactor	Excellent	Fiber board: Good	N. L.	N11 H11	Excellent	Poest Jane
J. V A.		Motal: Excellent) IBTY DAVO
Y0000	Skeetlank	Sxcollant	N1 1	NI NI	Excellent	Excellent
Shrodder/Compactor	Excellent	Excellent	N. I	7		
				TTW	**callent	Excellent
THETHREECOL	Excellent(2)	Motal: Unsatiate.	N. I.	NI 1 NI 1	Excellent	Escullent
Shroddar/Incinerator	Excellent	Excellent	2.5	7		
			147	Hil Hil	Excellent	Excellent
Danies Detelland		The same of the sa			name of the second	

(1) Depisted mercheol cans apec. No. PPP-96-B, type IX must not be domp cred, shredded, or incineraled;
(2) Feeding unshredded metal components into inclinatator should be avoided, unlass incinerator is designed to lundle such materials. Shredded metal fragments are expected to pass through grates of inclinatator, into ash pits without adverse operational effects.

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PACKAGING MATEHIALS DISPOSABILITY RATINGS

	Remar).	-	Highly detailed specification, 9 types; several types subdivided into classes; includes type IX; pressurized (aerosol) cans.	Single body type for parte less than 10 lb. Telescopic type for parts less than 20 lb lb.			
	Reuse Capability	F. J.	11.11	ніі	ni l	N. I	
CARS (CORE)	Common End Uses	For supply items other lian	Shipment & storage of widerange of products including subsistence items	For items requiring physical, water proof, or moisture proof protection	Interior cans for use in ship.ment & storage of equipment & material of moderate weight	Packaging of ammunition & pyrotechnic materials	
Applicable Specifications	Materinl Chemical Composition	Fiberboard & paperboard; cellu- lose; adiresive, k:aft paper, tin plate; moifcure & grease resistant paper: caps; anti- corresion liners such as parch- ment, aluminum foil, kraft, cellulose acctute polyethylene,	Metuli'aluminum: tin, texne, biack plate steel, or combinations thereof; lide: plastic, unidentified; flexible spouts: polyethylens or equivalent; protective coatings, exterior &/or interior as required	Varies depending on type, grado & style; thus: ammo con- tainer board, aluminum foil, waterproof duplex kraft, dex- trin adhesive, resin adhesive, water resistant achesive, asphalt	Tin or terne plato steel, soldered ends, synthetic rub- ber semis	ት ኒ ኒክኒ num	
فماسة ويسبب بالمراب والمراب والمراب والمراب والمراب والمراب والمراب والمراب	Specification	Cans, filesboard & paperboard & with paper & motal ends)	Cans, metal, 28 gage & lighter	Cans, fiber, spirally wound	Cans, hermotic sealing, rectan- gular	Cans, hermetic secling, metal sight dage, tear strip type	-
	Specification No.		96-2-44	Н16-С-3955	MIIC-4470	MIL-C-10464	

PACKAGING MATERIALS DISPOSACILITY RATINGS CLEANING MATERIALS (ABMASIVE CLEANERS)

Applicable Specificati	1	4695-0-11 3	Included in attached list of		clubning materiols	
Cherical Namo & Compos	1	2 MX1,-G-5654	included in attached lint of		ng materials	-
Cornon End Uses	Refer to MIG-S-851	2 MIL-G-5531	included in attached list of		cloaning materials	
Reune Capability						,
Specialic Gravity, approx						
nulk nengity, 1b/ft3, approx	 -					
Magnetic Susceptibility	y Nil					
Dichegradability	Extromely	alow.				
Combustibility	Road 1.1.		and the second s			
Heating value, Btu/is.	zozoaci ()	Min-6-2024; hil tor Min-8-051	2.001			· ·
Shreddability	Matorial al	Matorial already fragmonted	AND THE PARTY OF T			
Compact of 11ty	Unsatisfacto	ry; substantially nonc	ompactible			
		e de començata de mante esta esta esta esta esta esta esta es	n, beer transcours traces and beautiful the consequence comments of the			And the state of t
Sulfur, %, approx	AN.					
	Predlaposal	l Processing		Environmental		Disposability Rating Via
The state of the s	ad148	pboard Processing Fussibility	i . I	Impact		Storage Aboard Ship
Processing Equipment	East of Prehandling by Shing' Personnel	Relative Base of Proceeding	Processing Rouismone	Atmo- Ma	Marino Jettisoning	for Transfer
Nons	Excellent	NA	NA		Nil(2) Excallant(2)	Exce

Compactive	Skeallant	(1)	(1)	NN NA	Nil(2) Excellent	Excellent
Shredder	Licallant	(1)	(;)	NA NA	N11(2) Excellent	Excellent
Shreddor/Compactor	Excellent	(1)	(+)	NA NA	N11(2) Excellant	Excellent
Incinerator	Excallent	Excellent	NII	N11 NS	Nil(2) Bxcellant	Excellent
Bhredder/Incineracor	Excollant	Shreddari seo nota (1)	Shradder: see note (1)	11N	N11(2) Excellent	Excellent
/ 1 /		41174117444 5744 4144	Ţ	-		£

(1) presence of spall ambunt, of used abrasive cleaners in waste materials fed to compactors or incinerators is not expected to have advorse offeres. Shredders will handle materials meeting MIL-G-5634. Materials meeting MIL-S-651 should not be fed into shredders. (2) Negative but yancy required.

PACKAGING MATERIALS DISPOSABILITY RATINGS CLEANING MATERIALS (CHICHINATED SOLVENTS) PACKAGING MATERIALS DISPOSABILITY RATINGS

White the same of the same of

applicable apecifications	0-1-236(1)	0-1-634(1)
Chenical name	Totrachloroethylone	Trichloroethylene
Chemical composition	້ ^ຖ າດວ	CHC1 - CH
Specific gravity	1.62	1.47
Flash point, ° F	Nonflammable	Nonflammable
Bulling point, * F, approx	Ath	189
Combustibility	Non flammable	Nonflammable
Blodegradebility	Extremely slow	Extromely slow
To (ic hazard(3) Breathing Skinct, prolonged or repeated Ingestion	Toxic: Use only in well writhated area, suftable precautionary measures to avoid i contact with skin & eyes. And ingestion.	Toxicl Use only in well. Thillsted area, Exercise sultable precautionary measures to avoid inhalation, contact with skin & eyes. All ingestion.
Common and use	Vapor degroasing operations	Vapor degrosaing operations Vapor degroubling operations
Reuse capability	Limited	Limited
Disposability rating Jettisoning Storago aboard ship for transfer to shore base(2)	Unedthsfactory Excellent	Unsatísfactory Excellent

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(1) Additional information shrinded in list of cleaning materials.
(2) In accordance with UPBAVIRST 6240.3C, drainings of these metarials shall be transferred to 55-gallon drums cother anitable containers.
(3) Personnel must handle these materials in atrict conformity with instructions given on pages 1-15 through 1-27 of Defense Supply Agency Manual DSAM 4145.2, Vol. 1, "Preservation, Packaging, and Packing of Military Supplies and Equipment, Preservation and Packaging."

PACKAGING MATERIALS DISPOSABILITY RAYINGS CLEANING MATERIAL (CLEANING COMPOUNDS)

Applicable Specifications		Rofor to P.C	p-c-1136, p-c-1137, p-c-11111	P.C-535 & MIL-C-6543	included in	attached list of c	cleaning materials
Chambar Name & Chamber	T	1	25.11.22	2 1 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	٠	16.04	1
Comon End Uses	T		١.	P-C-525 & MIL-C-5543	included in	11st of	cleaning materials
Reuse Capability	ä	Ł	١.	P-C-137, 2-C-1444, P-C-535 & MILC-5543 included in attached	included in	list of	cleaning materials
Specific Gravity, approx		l To	inding on compositions	oponding on compositions of individual specifications	tions		
Bulk Donsity, 15/ft?,	Approx (NA	A	de de santanes des esterminates de la company de la compan	يسيان في بيدي في القاومية وي بالاشارة وي بيان المناقعة وي بيان المناقعة وي بيان المناقعة وي بيان المناقعة والمناقعة والمناقع والمناقعة والمناقعة والمناقعة والمناقعة و			
Magnetic Susceptibility	_	~					
Biodegradability	_	~			100 Cupper commence of the Com		
Combast 1511ty	Z	NII					
Heating Value, Dtu/lb,	, approx Nil	11					
Shreddability	N	4			-		
Compoctability	AN	A	e manustus umarus para proprieta de come c'alcada de la come de la	erajeren bellaman pulatrerindiginapulasa etelliteka againsa perajeria.			
Sulfur. 4. approx	47	4					
warden to tanaans				٠,			
		Predisposal	Frocessing		Environ-unital	L	Disposability Rating Via
Chinacter of account		Shipbo	pboard Processing Fensibility	11 ty	Impact	┝	Storage Aboard Ship
Processing Equipment	Ease of P by Ships'	Ease of Prehandling by Ships' Personnel	Rolative Ease of Processing	Effect(s) on scessing Equipment	Atmo-Marino	Jottisoning(1)	
None	Excollent	Excollent		NA NA	NA NA(1)	Unsatisfactory	Excellent
Compactor	NA		NA	NA.	NA NA	NA NA	NA
Shredder	ИА		NA	NA	NA NA	NA NA	8A
Shrodder/Compactor	NA		NA	NA	NA NA	NA -	ń.
Incincrator	en.		NA	NA	NA NA	NA	NA
Shredder/Incinerator	NA NA		NA	WA	NA NA	NA NA	RA
	T	Y					

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(1) In accordance with OPNAVINST 6240.3C, drainings of these materials shall be transferred to 55-gallon drums or other suitable containers.

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PACKAGING MATERIALS DISPOSABILITY RATINGS CLEANING HATERALS ' PETROLEUM PRODUCTS AND MISCELIANEON

Name Janks a second of cart Janes			(1)
Appaseant described	7-0000-0-A	1-1-4-1-4-L	MIL-D-16791(-/
Chemical namo	Principally refined paraf- finic hydrocarbons	Principally refined paraf. Principally refined paraf. Alkyl/aryl polyether alco- finic hydrocarbons finic hydrocarbons hols	Alkyl/aryl polyether alco- hols
Chemical uponition	A blend of hydrocarbons	A bland of hydrocarbons	Blend of above alcohols
Specific gravity, approx	0.85	0.8	Varies, 1.1 typical
Flash point, " F	Type I - 100 min Type II · 140 min	Grade A - 100 min Grade B - 125 min	350 min
Ccibustibility	Excellent	Excellent	Excollent
Blodegradability	Ext.emely slow	Extremely alow	slow
Toxic bazard	Minimal, if used in accordance conventional safety practices	Minimal, if used in accordance with sound conventional safety practices	Substantially mil
Common and uso	Removal of oil & grease	Solvent or thinner for paints, etc	Cleaning agent for rubber, plastics, etc
Roune capability	Limited	TTN.	Limited
Disposability rating Jettisoning Storage aboard ship for transfer to shore base(2) Excellent	Unsatisfactory Excellent	Ur sutisfactory Excellent	Ungalia factory Excellent
(1) additional information included in list of cleaning meteories;	ing matterials		. Service descriptions of the service comments of the service of the service of the service of the service of

(2) Additional information included in list of cleaning materials.
(2) In accordance with OPNAVINST 6240.30, drainings of these materials shall be transferred to 55-gallon drums or other suitable containers.

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PACKAGING MATERIALS DISPUSBELLITY RATINGS CLEANING MATERIALS, ILST OF

Minneson.

	Remarks	Profesably should be used with adequate	ventation; flas. point - nonflammable	Use only with ade-	quato ventilation; flash point - non-	flammable	80% blodegradable;	silicate %: not less	17.7 - 22; alkalin- ity as Na.0 %: 28 max	2 2	80% blodegradable; must be free of fatty	acid, rosin, soap,	gritty material,	inort fillors, car-	bonates, bicarbonates	Liquid at room tem-	perature			Must be free of fatty	acids, rosin, starch,	soup, rightresingre	dust control agents		type I: 100° F:	typo II: 140° P	•	
	Reuse	its Limited		Limited;	loss than for tatra-	chloroethy- lone	Limited				Limited					Limited				Limited			-		Tryun, cea			
	Common End Usos	Vapor degreasing operations; its higher boiling point permits	for trichlorosthylens	Vapor degreasing operations			Hot imneration cleaning of fer-	rous & nonferrous metals			For use in high-pressure steam cleaning	-		-	-	Removal of scubborn pigmented,	drawing, butting, & polishing compounds & slushing oils by	omulston immersion		Preparation of solutions which	conduct low voltage current	action necessary for alkaline	electrocloaning		metal surfaces by bruching.	wiping, spraying, or immersion		e de la company de la comp
Applicable Specifications	Material, Chemical Composition	grade grade		Trichloroothylene, technical	grado		Synthetic detergents sodium	metasilicate, monobasic sodium phosphite, trisodium phosphite.	anionic plus nonionic detergents (powdered)	The state of the s	composition optional; granular; not powdered (also refer to	Remarks)					nonphenolic; cypa 11; pacadic; phenolic materials: 15%-25%;	phenol: less than 36; volutile:	loss than 10%; flash point, 'F of volatile: 110° F min	Organic detergent: 0.4% min:	phosphate, as Paos: 5.0% min;	impurities, &: 7.5 max;	caustic soda, %; remainder	(also refer to Remarks)				
	Specification Title	Totrachlorouthylene (perchlorocthylene),		Trichloroethylene	בפכעון וכט ד		Cleaning compounds,	atkall, bolling	hydrosteam)	Supply State Co	high-pressure	(sream) cieanor				C whing compound,	•				cleaning for steel			Dry Cleaning sol-	6			
	Spacification No.	0-1-256					P-C-436			127	7	-				P-C-4444				P-C-535				P-0-680	}			

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PACKAGING MATERIALS DISPOSABILITY RATINGS CLEANING HATERIALS, LIST OF (Cont)

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	Roma rks	Two grades for each type; flash point, minimum; grade A - 100° F, grade B - 125° F	1	Flach point, °F: methanol - 54, P-D-680, type I - 100 min; type II -	Supplicr must certify detergent conforms to material requirements; flavily point of product: 350° P min	Material to be dis- carded should not be fed into chredders in order to avoid damage to moving components of these uncle
	Reuse Capability	N1.1	Limited Limited	811	Dimited	r,imi tec
s Specifications	Common End Uses	Solvents or thinners for paints, unamels, varnishes, new syntheirs; type I: for use where no reatrictions for emissions of solvent into atmosphers; type II: for use where solvent emissions into atmosphere are restricted; uses; admilar to PD-650 but is higher priced	For hot immersion cloaning Limited operations; removal of asphalt, mineral oil, grease, & roud dirt from metal components Abrasive cleaning of metal parts Limited coaled with carbon & similar deposits	Nomoval of fingerprints, suppression of perspiration, corresion, & temporary protection of nteel surfaces	Removal of contaminants from items ruch as rubber, plastics, canvas, & metallic articles	blast cleaning & ponning; removal scale, rust, dirt, sand from metal surfaces
Applicable Specifications	Matorial Chemical Composition	Petroleum distillates olefins - trace, max; aromatics - 20% max	Wowdered soap & soap products, alkali metal salts of fatty acids Ponch & apricot pits, feens, & black & English walnut shells; corn cobs; rice hulls; coconut, chibert, & almond shells; chemical composition; princi-	Corronton preventive, Methanol plue dry cleaning Romoval of fingerprints, supfingerprint remover naphtha meating P-D-680; scap: pression of perspiration, correlation, & temporary protection water	dient: 0.5% max; active ingre- dient: 99% min; may be oither alkyl aryl polyether alcohol where alkyl polyether alcohol where alkyl group is linear arithary or accondary alkyl; sulfar, wi 0.2 max; phosphorus, %: a. 0.1 max;	Chillod cast iron; hardsned cast isteel grit & shot
***	Specificarion Title	Thinner, paint, volatile spirits, petroleum spirits	Mashing compound, washing achine, aircrait m.tt. Aurts Grain, abrasive, soft, for carbon removal	Corronion preventive, fingerprint remover	Detergents, general purpose (liquid portonic)	Diast cloaning & pouning grit & shot
	Specification No.	T?-T-291	HIL-G-5543	MIL-C-)5074	MIL-D-16791	MIL-9-851

PACKAGINO MATERIALS DISPOSABILITY RATINGS COATING COMPOUNDS

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PACKAGING MATERIALS DISPOSABILITY RATINGS CONTRIG COMPOUNDS

* Minister and Management of the Control of the Con

		Applicable Specifications			
Specification No.	appeatication Title	Material Chemical Composition	Common Rnd Uses	Reuse Capability	Romarks
6 ₁ -4-11H	Plastic conting compount, strippable (hot dipping)	18 C01	e s	81.1	tipe I imits: type I: +10 to 160° F type II: -65 to 160° F & where transparency is required
NIL-7-152	Treatment, molaturo-Refer fungua remietant, of helow communications, electronic, & asso- clated electrical equipment	Refor to apecification VV-L-173 below		પા	
MIL-11-173	Varnish, moisture- fungus resistant (for txestinsit of communications, asso-	phoryl.phonol-formaldehyde , tung oil, rolvent, & yyannlide or copper-8- olinolate, refer to Pemirke	For application vin Above apoc- ification MIL-7-152	411	Methanol, benzone, chlorinsted hydro- emtbons, or other highly tuxic solvents shill not be used
MIL-G-3254	Ccating-syntem, bridging, strippable, sprayable	Type Components Proparation for outdoor strong class 1: aprayable webbing of items such as artillary aclass 2: aprayable, strip- & large marine engines pable protective plastic; arrival solution or chlorinated solution or chlorinated solution or chlorinated solution (optional), petroleum solvent; asphalt, gilson- ite (optional), petroleum solvent. 3 paste: aluminum, conferm- ing to type it, class £, of TT-P-20; vehicle: asphalt, gilson- ite (optional), petroleum solvent.	ozage «ox,	41.1	Toxicological data & procedures required to ovaluate sefety of materials bell be furnished by supplicaplactics included; polyvinyls

PACKAGING MATERIALS DISPOSABILITY RATINGS COATING COMPOUNDS (COAt)

Remarks Capability Nil Reuse Ni 1 otherwise as for type I, class L craft, missiles, rockets, transtype III, white: single exterior Preservation of rubber items as coat for applications described type II, class 1, black: as for strippable, protective covering type II, class 3, white: top-coat for type II, class 1 materials (combination for application on metallic, painted, & plastic surfaces as entire airrials or assemblies containing for bulk acrylic plastic mateclass 1, black, basecoat mateportation vehicles during outtype II, class 2, gray: a contype I & as basecoat for type trasting intermediate coating door storage & overseas deckabove for combination coating exposed to weather in outdoor Water emulsions capable of being Type I, class 1: transparent, type I, class 2: opaque, but to be applied over type II, tires, track blocks, bogie wheels, gaskets, hose, etc acrylics for items fully Common End Uses II, class 3 materials; loaded shipments; ccvered; rial; Applicable Specifications nated hydrocarbons permissible; Elastomeric compounds, fillers, solvents; no benzol or chlorisprayed & stripped; other components unidentified & colored pigments in organic antiozonant: when required Chemical Composition Material Coating, sprayable, strippable, pro-Preservative coating, rubber: for Specification rubber surfaces tective, water Title emulsion Specification MIL-P-11520 MIL-C-6799 Š

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PACKAGING MATERIALS DISTOSABILITY RATINGS COATLING COMPUNDS (cont.)

	•	Kemarko	2010r.;	type 7: 6 tuchnum:	type II, class if	trees vi chass o.	Maring Corps arean							-		-							Aust be free of any	injuctions additives	מיתור המוחורה												
	A CONTRACTOR OF THE PARTY OF TH	Kanau Capability	_							 					 								N.11					2				-					-
		Common knd Uses	Strippable, aprayable, protec-	erve coating for application on	paranced or unparanced metal sur-	races to seal openings a provide	during uhipment																Coating over pigmented finishes	& other surfaces where applic-	arga			Dutailed requirements & pro-	application of sprayable, strip-	pable coatings approved under	MIL-C-6799 & MIL-C-16555 for	protection of painted or	unpartured, metallic or plastic	surfaces for weapons systems &	components		
	Applicable Specifications	Material Chemical Composition	& by Wolght	1720	Component	2,6		% by Wulght.	t.j.10	+ 97	,	Pigment - 12	Titanium dioxide 0.5		•	Digmont in tune IT abull contain	706 min load chromator solvent	shall constat of methyl ethyl	Ketone or methyl othyl ketone	+ toluene: small amounts of	mothyl laobutyl kotone per-	mitted	Mathyl & athyl estar polymors &		with the careta mounted by nor	other regine dispersed in a	hydrocarbon solvent	ил						•		-	
or de desir densemble /desis mange de salvado de salvado de salvado de esta esta de salvado	***************************************	Specification	Conting compound,	derippable, spray-	arga																		nd,	acrylle, clear					tive, for property.	tion & packing of	vonpemu nyutomu &	components; applica-	cron or				
***************************************		Specification No.	HZZ-C-16555																				MIX.C-17504					MT-C-23760									

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PACKAGING MATERIALS DISPOSABILITY RATINGS COATING COMPOUNDS (COAT)

	Remarks	Application only in adequately ventilated areas; skin contact with material should be aveided	
	Reuse		WII.
	Common End Uses	Application at about 120° F to apare parts containing heat sensitive materials for physical, cerrosion, & fungistatic protection; also for coating optical lenses & elements for packaging purposes	Protection of alactrical circults & angine paris of internal combustion angines against moisture & corrosion
Applicable Specifications	Matorial Chemical Composition	Typical: collulose acotato butyrate; chlorinaled biphenyl; polyothylone glycol /1-2-ethyl hexanonte; mineral oll; yylol; teopropanol; phenyl aulicylate; trilauryl phosphate; di-2-ethyl hexylamine or methyl morpholino; solubilized 10% coppor-8-aulnolinolate	Resin: a copolymar type formed by reaction of a vinyl-type monomer or monomers with a phthalic alkyd realn; acomatic aclyder falkyl solvent; as required; antickiming agent, & arabilizers; at discretion of supplier; rosin & phenolic realn; nil
Bergeral - Branch - Grand - Grand - Branch - Branch - Grand - Branch - Grand - Grand - Grand - Grand - Grand -	Spocification Titlo	plantic conting compound, strip- pable, 120° F (49° C)	Varnish, water- Proofing, electrical, by Agnition Antian A
	Specification No.	ит-р-45021	MZL-V-12811

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PACKAGING MATERIALS DISPOSABILITY RATINGS CONTAINERS, MISCELFANROUS (MIL-C-52661 ONLY)

			,										-		Disposability Rating Via	Γ			2	NA NA	RA	AR.	52
				-													Marino Jottisoning	Excellent	Ş	2	8 2	% .	£
															Environmental	pact	Harin	I SM	§	£	Ş	Ę	\$
_															Envir	E	Atmo- aphoro	\$	5	£	2	ez Ez	દ
constraint, miscalinarous (minsectional)					7.7 for steal		dala: nil								en e	oility	Effect(3) on Precessing Equipment	S	W.	Š	KA	N.V	45 /
Contributed, Fischill	nost pago	next page	noxt page	xt page	0.4 for some woods to 7.7		excollent; all other materials; nil	low	(1) Motals: nil; woud; excellent	nil; wood: 8,500					1 Processing	oord Processing Feasil	Ease of Prehandling Relative Ease Prec	É	W(1)	M(1)	ነአ(1)	. พ(า)	IA(1)
	Refer to	Refer to		Refer to		Ŋ	Stueli	Extromely a	(1) Motals:	approx (1) Metalni	(1)	(t)		53.	Prodlapoun	Ship	ships! Personaling	Excallent	%	S.	\$	va.	₩
	Applicable Specifications	Chomical Name & Composition	Conmon End Upon	Rouse Capabilicy	Specific Gravity, approx	Bulk Density, 1b/ft3, approx	Magnatic Susceptibility	Diodegradability	Combuntibility	Honting Value, Btu/lb, a	Shreddability	Compactability Improduct	Shreddad	approx		The second section is a second	ı,	None	Compactor		Shradder/Compactor		Shreddar/Incinerato.:

Decause of their large size and construction, it is not feasible to process cargo containers which have deteriorated to rejection level, in shipboard shredders, incinarators, or compactors. For disposal of such containers, jettisoning probably is preferable to storage aboard ship for transfer to a shore base for further handling.

PACKAGING MATEHIALS DISPOSABILITY RATINGS CONTAINERS, MISCELLANBOUS (NILL-52661 ONLY)

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Person spe . G miniske seestheide. Additional growth between the deleter the d	ነ (ፀመአ ድ ት ወ	A highly detailed apocification with regard to structural requirements gross we get rating for each 20-foot contained in a coupled consiguration shall be 15 long tens or 33,600 lbs
	Rotao Capability	
	Common End Uses	rransportation of high dansity wilitary and quasi-military cargo when security and pifferage are major cansidarations; for highway, railroad, or water modes of transport either in singly or coupled (tendem) configurations
Applicable Spacifications	Material Chemical Composition	Exterior sides, front wall, roof: steel; interior sides and front wall: plywood, may be fabricated from fiber glass or fiber-glass-chated plywood; hinges: steel; acced; steel; lock nuts: steel; kick plate; steel; throshold plate; steel.
	Specification Title	Containdr, curgo
	Specification No.	MIL.C52661

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PACKAGING MATERIALS DISPOSABILITY RATINGS COMININERS, MISCELLANEOUS (F.S. PPP-P-18C CNLY)

Common End Uses Refer to no Specific Gravity, approx Rule Density, 1b/ft2, approx Rule Density, 1b/ft3, approx Rule Susceptibility Radmetic Susceptibility Refer to no Street of Susceptibility Refer to no Street of Susceptibility Gravinatibility Gravinatibility Compactability Unating Value, Btu/1b, approx Unshredded Shredded S	Refer to next pa.,0 Refer to next page Varios widely from 0 1, for cork to 7.7					
prox pprox pprox so of P Ships'						
prox pprox pprox shape		k to 7.7 for steel				والمراجعة
tu/lb, approx tu/lb, approx x x sal gaso of p annt by ships!						
tu/lb, approx x sal gaso of P anne Sy Ships' Excelles	Stanl, excullent; all other ma	other materials: lill				
tu/lb, approx x sal gaso of p anne by ships!	Extremely alow					
x x sal gaso of P BNOOL SY Ships!	Motal, aluna, unantisfactory, other materials:	othor materials: excellent	1,000	11000	***************************************	
Prox prox sposa i	varios widoly, from zero for metals & glass to co. ou latering	ietals & glass to zu,uou z	in lockbar	200 F		
Prox prox aposa 1 pulpmone) Excellent		. 2000	Their Control	aid: rubbo	ri tair
approx Disposal Zquipmont	Motals, glass, corki exce	Motale, glass, cork, excellent; fiber, plastic film; good, preserv, film;	r 1006 11			
approx Disposai Zquipmont	Lid mond in the notion	for metals /2 glass up to 0. Ch for some plastics or papers	Id owos zo	astics or	psport	
pboard Disposal csaing Equipment	ATOUTY 'ATOUTM					
pboard Disposal	Prodisposal Processing (1)		Environmental		Diepogani	Disposability Rating Via - 1
pboard Disposal	Shipboard Processing Fearsbillty	. 1	d	1		True manage where the
	handling Relative Easo	Effect(s) on	Atmo- Ma	Maxino Jettisoning	son 1,ng	Shore Bang
	ì	ì	NA	-	Excellont	Excel_ent
	%					
Compactor Excellent	(2)	NI	N(1 N1)	-	Excellent	Excellent
		,		+		
Shredder Excellent	Excellent (3)	N11 (3)	T TE	NII EXC	Excollent	EXCOLLENC
Shredder/Compactor Excellent	Excellent (3)	811 (3)	NI I	Ni 1 Exce	Excellent	Excellent
			1	+	Veca Cant	Rycel lont
Incinorator	Excollont	. T.	1 12	110	7110770	,
Shredder/Incinerator Excellent	Excellent (3)	M11 (3)	NA3.	N1.1 Exc	Excellent	Excellent
		or Mailar materials or Mailar materials must be handled as required	Minijar m	ateriole m	ust be han	par inbux se poli

Depleted containers of potentially hazardous drugs, chemicals, pharmaconticals, or similar materials must be handled as regulred for removal of residual contents in accordance with spacific instructions for individual waterisks, before contuinars are reused, procussed in shipboard disponsi equipment, jettimoned, or stornd aboard ship for transfer to shore bane for further handling (Rof. NAVSUP Publ 4500 CHIL of 1 Jul '73).

Relative case of compaction - mathle, glass; excellent, fibor, plastic films; good; plastic, rigid & rubber; fair. Pesding bundles ox large misnes of plastic films into shredders should be avoided in order to prevent jamming or clogging of unit. 33

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packaging matrhials disposability ratings containers miscellansous (cont)

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	Round Capability	нел											
THE PROPERTY OF THE PROPERTY AND THE PROPERTY OF THE PROPERTY AND THE PROPERTY OF THE PROPERTY	Comon and Uses	Packaying & pucking, fox drugs, chemicals, and pharmacouticalo		,									
Applicable Specifications	Mnterial Chamical Composition	nat Composition	ter, glasse or plantic, on documented	oor metal, aluminum, rub-	notal: tin, tin- 10sid, tin-copper, or aluminum: plastic: as docu- mented	metal, plastic,	tin plate	tic, or fibur endo, as documented	stuol	polyochylone	papur, polyethylene, landanted as spect- fled	-	
	ฮ	Conta	container, propor	container	tubus (collap- sible)	tube closures	cans	corn corn	pails, proper	palls, spouts	bage &	 ~	······································
I THE WAS THE PLANT OF THE PROPERTY OF THE PARTY OF THE PARTY.	Spectition fitte	Containers, packag- ing, & pucking, for	pharmenticale										
	Specification	PPP-C-185					(27.00-0						

PACKAGING MATERIALS DISPOSABILITY RATINUS CONTAINERS, HISCELLANEOUS (COIR)

Applicable Specification	ons Refer to next	t Dage		-		***************************************	
Chamical Name & Composition	Refer to			A STATE OF THE PARTY OF THE PAR	J		
Common End Unns	Rofer to	noxt page					
Reuse Capability		t jage					
Spacific Gravity, approx		varies widely; from 3.4 fer wood to 7.7 for steel	o 7.7 for steel			-	
nulk Density, 1b/2t2,	Approx NA	e-province age come to be seened by comme . Y candidate the second of		-			
Magnotic Suscoptibility	Steel: wee	collont, all other metariols, all	nin; nil				
Blodweradability	Bxtromenly n	707	Blodugzpdability Butrundly alow				
Combustibility	Metalus una	itinfactory; all other	materials: excellent		K		
Henting Value, Btu/lb,	approx Varies vide	ly, from zero for matal	s to 13,500 for polyure	thane: 4	S : pco/	500	
Shradlabilitev	Parter to not	too for docails	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE			A D'ANNE ANTONIO DE LA COMPANSION DE LA	
Compaciability	Rafar to no	nctes for details					
Sulfur, ', opprox	Varion wide	ly, from nil for motals	daly, from nil for motals up to 0.5% for some plastic formulations	istic fo	rmulat.	ions	SAME AND THE PARTY OF THE PARTY
	Pradiaposal	1 processing		Environmental	aonta 1	Disposabil	Disposability Rating Via
Γ	dila	oard Procussing Fnasibility	lity	Impact	نز		Sterage Aboard Ship
Shipboard Disposat	Enne of Prehandling	Relative Ense	Effect(s) on	Atmo- Merina	trina	Jettisoning	for Transfer to
	by Salps' Personnel	or Processing	- 1	Spinore	-		DEPG DIVIC
None	Excellunt	8.7	WY.	<u>z</u>		Excellent	skcollent
Compactor	Excellent(1)	Fiberboard: good; wood: excol- lent(1),(2)	NII	1 IN	1111	Excellent	Excellent
Shrodder	Excellent(1)	Fiberboard & wood: excellent(1),(2)	Nil	NI:	N 1.1	Excellent	Excelient
Shraddor/Compactor	Excellent(1)	Piberboard: good; wood: excel- lent(1),(2),(3)	Nil	usı.	Ni 1	Excellent	Excellent
Incinerator	Excellent(1)	Excellent(1)	Nil	1 1 1 1 1 1	NI I	Excellent	Excallent
Shraddar/Incinarator	Excollent(1)	Fiberboard & wood: excellent(1),(3),(4)	ихл	N 1 1 N	NÍ J	Excellent	Excellent

(1)Does not apply to large metal containers (MIL-C-5580 and MIL-C-22403) which cannot be handled readily in shipboard processing equipment. From a practical viewpoint jettisoning probably is preferable to storage aboard ship for disposal of such containers deterior rated to rejection level.

(2)Compactability & shreddability of polyurethane containers (MIL-C-38226) - rigid containers; good; resilient components: fair.

(3)Feeding bundles or large masses of rigid or resilient polyurethane into shredders should be avoided to prevent jamming or clogqing

of the units $(^4)$ Polyurathana only \cdot shradding: fair to good; incinerability: excellent.

PACKAGING MATERIALS DISPOSABILITY RATINGS CONTAINERS, MISCELLANEOUS (Cont)

			ere die de de la companya de la comp		
		Applacat of Specifications	مودة فاردن بسنده والمسترج ومسوده والمراجعة المحدود والمرين بمساعوا والوجود والمناف والمراجعة		
Spacition No.	specification Title	Miterial Chemical Composition	Comnon End Usos	Rousa Capubility	Кепагкв
PPP-7-1266	Container, thermal, shipping for med- ical material requiring controlled temperature ranges	Box, fiborboard, meeting PPP- B-636: ccllulcse; polyurothano foam rigid & olantic, menting MIL-P-26514: polyurothane	ture	poog	
PPP-T-495	Tubos, mailing & filing	Tube body: new paper, chip- board; kraft paper, water- proofed kraft paper: all of cellulose: adhosive: unidenti- fied; ends, necks, & screwcape: ateal	Vor malling, filing; storage (as for maps & bluejrints)	Generally limited to filing or storage rouse	
HIL-C-5584	Containors, ship- ping & storage, metal, rousable	 	Shipping containers for water- vaporproof & physical protec- tion for domestic & oversess shipment & storage	Excellent until deter- forated to rejection level	
MIL-C-9959	Container, flexiole, reusablo, water- vaporproof	Wood cleats & veneer: celiulose + lignin; paper & triple cor-rugated fiburboard; cellulose; adhesiven; varicum, as required	Environmental protection of aircraft engines, meunted or installed on a handling or transportution device	Excellent	
MIL-C-22443	Containors, modular motal, general spec- ifications for		onic id- plex	Excellent -	
MIL-C-39226	Containers, poly- urethane, rigid or elastic for packng- ing umil engines	Polyurethane; specific compo- sition may vary, depending on oupplier	g small enginos	Excellent -	
MII-B-47666	woxes, shipping, inserts consolids- tion	Mood cleuted plywood, wire bound Modular size shipping boxes for plywood, fiberboard; double wall consolidated shipments fiborboard is wax impregnated adhesives; resins not identified	<u> </u>	poog	-

PACKAGING MATERIALS DISPOSABILITY RATINGS CRATES, WOOD & METAL

		A STATE OF THE PERSON NAMED AND PERSON N	فيسوده معاور فاشا في يوديون كالسوار و را مودود كالشوارة فدوس كالأخراب وكرين كالمناول أو والمناول كالمناول فالمناولة الأراق		varias with species, 0.4-0.75; steel: 7.7; sleminum; 2.7; polyethylene; 0.92		()	. d. d. The second of the second of	11hs nd 3 '	1923 11.1.4. 1		11 cnt			Tongodato	Storage Aboard	tarina Jettisoning fo	Nil Excellent Excellent		Nil Excellent Excellent	Mil Excellent Excellent		M.1 Excellent Excellent	Nil Excellent Estellent		Nil Excellent Excellent
				-	minum:		intim.		o lumin	num: ni		mr exce	um: nil	7.1.2.2	T			ğ		I IN	N11		T TN	LYN		III
S, need & main		**************************************	والمراقبين والمستدين والمستدين والمستدان والمس		-0.75; steel: 7.7; alu	***************************************	nil: atcel: excellent: solvethylene: nil: aluminum: nil		oxcellent; steel: nil: polyothylane: excellent; aluminum: nil	8,500; Steal: nil; Polyathylone: 20,000; aluminum: nil		stool: excellent; Polyothylone: takr, aluminum; excellent	0.15年; Steel; nil; polyethylene; nil; aluminum; nil		bility	11/2000	- 23	Ę		NII	N1 1		NI 1	N11		NA.1
'earner's	to next engo	to next page	Rofer to next made	to next page	ins with species, 0.4		; nteel; excellent;	910W	ollent; steels nili po	00; Steal: nil; Polyo	2001 - 00000 11000	stool: excellent; Polyothylone;	.15%; Steal; nil; pol	1 Proceeding	Shipboard Processing Feasibility	Rolativo gano	of Processing	ra.		excallent (2) (3)	Excellent (2) (3)		Excollent (2) (5)	Excellent (2)		excollent (2) (3)
	Rofer	Ich Rofer		_	Wood:	аррсож мя	Wood	Extron	Wood:	Wood:	A POOK	Wood & Bt	 Woods 0	Pradinion	Shipboa	Ease of Frehandling	by Ships' Personnel	Excollent	- 1-	excellent (2) (3)	Excellent (2) (3)		Excellent (2) (3)	Excellent (2)	ARTINE ARTINE AND ARTINE ARTIN	Excellent (2) (3)
	Applicable Spacifications	Chemical Nume & Composition	Common End Usas	Reuse Capability	Specific Gravity, approx	Bulk Density, 15/ft?	Magnotic Susceptibility	Blodegradability	Combustibility	Heating Vrlue, Btu/lb, approx	Shruddap, 11tv	Compactability	Sulfur, %, approx		Shippand Disagn		essing Equipment	None	Compactor		Shredder	Chraylder Course	John Manner Jannes Tile	Incinerator		Suradade/incinerator

E S

Applies only to packaging deteriorated to rejection level
Crates must be reduced by ship's personnel to sizes sufficiently small to fit into feed hoppers of processing units
Feeding large bundles or long lengths of wire into compactor or shredder at one time should be avoided in order to
prevent interrupting operation of units

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PACKAGING MATERIALS DISPOSABILITY RATINGS CRATES, WOOD & METAL (CORT)

	Remarks		Use of wide variety of woods permitted depending on wood sroup specified						
	Reune Capability	Good reuse potential (1)	Good reuse potential (1)	Good reuse potential (1)	Limited reuse potential (1)	Good reuse potential (1)	Excellenc (1)	Poor	
	Common End Uses	Domestic & overseen shipment of net loads not over 4,000 lb & not requiring protection of clused or fully sheathed crates	Describes method to design crates capable of vesisting attresses to which a crate may be subjected	Shipment of items not requir- i protection of fully a. Jathed crate	For shipments not exceeding 1,300 lb	For domestic & overseas ship- ment of equipment not exceed- ing 5,000 lb	For shipment of light weight airframe components & bulky items	Used in construction of tops of sheathed crates	-
Applicable Specifications	Matarial Chemical Composition	wood: cellulose + lignin; papor: cellulose; nails, staples, bolts, nuts, lag bolts, washors, metal strapping: steel; liner: poly. ethylene	Wood: callulosa + lignin; paeer liner: callulose; nails, bolts: stael; plywood bonding agent: unidentified	Lumber or plywood: calluloso + lignin:plywood bonding agent un;dentified	Wood; cellulose + lignin; wire; galvanired, annualed carbon steel	Wood & plywood: cellulose + 15,0nin; plywood bonding agent: unidentified; wire: galvanized, annealed carbon steel	Steol, aluminum	Folt, wood fibers & equivalents	
	Specification Title	Crates, wood, open & covered	Craton, wood, ium- bor & plywood, sheathod, najlod, & bolted	Crntes, wood, open, 12,000 - 16,000 lb capacfby	Crate, wood, open, wirebound	Crates, sheatned, vood, wirebound	Crate, slotted an- gle, steel or alumi- num	Roofing Lult	
	Specification No.	PPP-C-650	HIL-C-104	ить.с.3744	MIL-C-11133	ить-с-22806	MIL-C-9897	85-4-501	

(1) Until deteriorated to rejection level

PACKAGIPIG MATERIALS DISPOSABILITY RATINGS CUSHIONING MATERIAL! BOUND FUBER

										Disposability Rating Via	Storage Aboard Ship	for Transfer to Shore Base(3)	Excellent	Excellent	Excellent	Excellent	Excellent	Excollent
									AND THE RESIDENCE AND ADDRESS OF THE PERSON	Disposabil		Jettisoning(2)	Excellent	Excellent	Fxcollent	Excellent	Excellent	Excellent
										Environmental	act	Atmo-Marine	7 JN	N11	N4.1	Ni 1	N.1.1	N11
										Enviro	Impact	Atmo- aphore	¥	Ni 1	Ni 1	¥1.1	NT1	TIN
	كالتار والأمارية أناف فيورين والمناطقة فالمنطقة والمنطقة والمنطقة والمنطقة والمنطقة والمنطقة والمنطقة والمنطقة					STREET OF THE STREET OF TH	meres des désentes aux les maisses des la company des des la company des la compa	arialistika mandalasinya tapada anaka arianda arianda arianda arianda arianda arianda arianda arianda arianda a	and the state of t		ility	Effect(s) on Processing Equipment	NA.	Ni 1	N(1)	Ni 1(1)	Ni l	N(1)
hext page	next page	1	1ed in PPP-C-1120		ly slow	ADDENIA MANAGEMENT AND		Poor; considerable apringback		Prediupcsal Processing	oard Processing Feasib	Dass of Prohandling Relative Easo by Ships' Personnel of Processing Pro	NA.	Poor	Fair(1)	Poor(1)	Excollent	Vair-Excellent(1)
A Rofor to	\dagger		pprox Unapeulf	NIJ	Extremo	B, 000	Fair(1)	Poor; cons	0.2	Prediupcsa	ad tus	ase of Prehandling y Ships' Personnel	Exceliant	Excellent	Excellont(1)	Excollent(1)	kxcellent	Excellent(1)
Applicable Specifications Clearal Manne & Composition	Roise Capability	Spicific Gravity, appre	Bulk Density, 1b/ft3, a	Magnitte Susceptibility	Diodegradability	Heating Value, 8tu/lb, Approx	Shreddalility	Compactability	Sulfur, &, approx		In wild breadaids	ţ	None	Compactor	Shreddor	Shredder/Compactor	Incinerator	Shreddor/Incinerator

(1)Bundles or large masses of bound fiber should not be find at one time into shredders in order to avoid jamming or clogging the units. (2)Negative buoyancy required. (3)Exom a practical viewpoint disposal by jettisoning likely is proferable to storage abourd ship.

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PACKAGING MATERIALS DISP., JABILLITY HATINGS CUSHIONING MATERIAL "OUND PIBER

	Romarks	Insacticide: when natural hair is used in manufacture of cunhioning material; the material shall be treated to contrin a residual 0.50±0.0% by weight of 2-chloroplenyl) vinyl dimethyl. phosphate
	Reuse Cepability	Only for occasional returnable items
	Common End Uses	General cushioning applications for protection against vibru. tion and impact shocks, molded forms intended for specific actions and are molded to fit contours of the article.
Applicable Specifications	Material Chemical Composition	Class A: natural hair filler bound with suitable elastomoric bi.dex (chloroprone, typical); class B: natural or wegetable filer. aynthatic fiber, binder, hair: any elostomoric material free of starch or protein; ing-cticide: refer to romarks ing-cticide:
	Specizication Title	Cunhioning material, uncomprassed bound fiber for packaging
	Specification Nc.	PPPC - 1120

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packaging Materials disposability ratings

CUSHIONING MATERIALS, CELLUIAR PLASTICS

Baue of Bace o		Bolel, to, next, ever	BGSex to next page	Dofer to next page	ROLL to Hext. Paga	Varios doy suding on apacific plantic formulations, non-critical	~~	Varies supenains on appositic plantic formulational 1/28.	Extremaly slow	Ex. () Jon?	Varies, depending on plastic 7.800 to 20.000	Fidus: Excellent (1)	Films: Poor-Kair; much apringback	Up to 0.5% depending on individual formulations		recensering hereing hereing historian preparation via	Sard Proceesing Family Inty Impact	Relative Ense Effect(s) on Armo- Haring Jottisoning(3)	KK.	lunt wor-Fair Mil Mil Mil Ex-allant Excellent	lont (1) Good (1) Mil (1) Nil Hil Excellent Excellent	lent (1) Puir (1) N:1 (1) Nil Excultant Excultant	lant Excellent (2) Nil Nil Excellent Excellent	lunt (1) Excellent (1) (2) Nil (1) Nil (1) Nil Hil Excellent Excellent
	111000	Bafel to next cum	Refer to next page	Bofer to next page	Rofer to next page	Varios doyanding on	~~	→	Extremely alow	Ex. / len:	Heiting Value, Btu/lb, approx Varies, depending or	Fidma: Excellent ()	Films: Poor-fair; m	Up to 0.5% dopending	For polyvinyl chlor	rear spong r Process	Shipboard Fro	Ease of Prehandling Rela	经	Excellent Nor.	Excellent (1) Good (Excellent (1) Pulr (Excellent Excell	Excellent (1) Excell

large manges of collular plantice should not be fed at one time into ahredders in order to avoid jamming or clogging of aolbane(1)

12) Inclineration of relatively large amounts of polyvinyl chloride based compositions at any one time absard ship should be avolded as a procautionary measure. This is not likely to occur absard ship wher plantics constitute about 1% of total vaste packacing and PVC is necimited to consist of approximately 30% of total plantic reineration is not expected to have any adverse environmental or inclinerator apparation effects attributable to relation of hydrogen chloride from polyvinyl chloride.

(3) Nugative buoyancy required.

The contraction of the contracti

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packaging materials disposability ratings cusiioning materials, cellular plastics

Control of the second

j	_		1		· · · · · · · · · · · · · · · · · · ·
	2	Hemorks			Type I: heat.goalable; type II: non-hyat- sealable
	\	Canability	Nil, oxcept for occa- sional retirnable items	samo an above	abeve as
carrows thatica		Common End Uses	Protect items from damago duc to alock, vibration, concen- trated forces, contendantion, & abrasion during storage & abityment. Transparent claus I materials are suitable for use as cushiening inserts withir trans, arout bags & envelopus & permit inspection of contents	Protection equipment against shock & Vib., ion	Protect Itoms from damago duo to shock, vibration, concen- trated forces, contamination, & abrasion during handling & abipping
	Ma terial	Chunical Composition	Composition of pinstic uniden- Lifted	Colludar, plasticized, non- hygroscopic material made of plasticized lead stabilized polyvinyl chloride with fillers, dyes, & pigments as decumented, Type I coated with flexible abr-sien realetant material; identity of lead stabilizing	Composition unspecified: a composite of two sheets, one fint, the other with uniformly distributed bubbies
	Specification	Titlo	Cudnioning material collular plantic, film & Packaging applicutions)	Cushioning material packaging, poly- varia chloride, plasticized, collular	Plautic film, trenmparent, flex- ible, collular
	Specification	No.		MIL-C-(6010	A11b41015

\$ F. Debrooms

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PACKAGING MATERIAL & DISPOSABILITY RATINGS CUSHIONING WATERIAL, CELLUIOSIC

													Disposability Rating Via	Storage Ab	Atmo-Marino Jettisoning(?) for Transfer to sphere	<u></u>	Excellent Excellent	Excellent Excellent	Excellant Excellent	Excellent	Excellent Excellent
													Environmental	Impact	oro Mazir	N11	I NII	I NII	I WII	IIN	
													Env	Γ	ţ	ì	E .	NII	LIN	TEN .	Lin
and the state of t													-	oility	Effect(n) on Processing Egaipment	NA	Nil	NY1 (1)	N11 (1)	NIL	N11 (1)
oxt page	अर हमजुद	o next pags	skt page	1,1		,	ly alow			(1)	considerable spring back	der der eine der German der eine der eine der eine der der eine der der der der der der der der der de	1 Processing	P L	Relative Ease of Processing	ź	Falr	aoo1 (1)	good (1)	Bxcellont	Excollent (1)
Rufar to	Rofor to	Rofor to	Refor to	Non-cct \	7 ×	MII	Extromo	Exceller	ox 7,500	Excellent (Poor, cons	Up to 0.5%	Prediuposal	ahlph	Ease of Prehandling by Ships! Rersonne!	llont	Excollant	Excollent (1)	Excellent (1)	Excellent	Excellent (1)
lone	ultion			rox	appro	133		-	addu ,						os va	2002	EXCO	Exco	Exco	Exgo	Вксо
Applicable Specifications	Chemical Name & Compo	Common End Usea	Roung Capability	Spacifit Gravity, approx	Bulk Density, Ih/ft3, approx	Magnetic Super ptibili	Blodegradability	Combustibility	Heating Value, Btu/lb, approx	Shreddability	Compactability	Sulfur, %, approx	- T.		Enipoosta Dimpossi Processing Equipment	None	Compactor	Shredder	Shradder/Compactor	Inc.:.orator	Shrodder/Incinerator

Bundies or large masses of colluiosic cushion materials should not be fed at one time into shreddes a in order to avoid jamming or clogging of units.
Negativo bouyancy required.
Prom a practical view point disposal by jettisoning probably may be preferible to storage aboard ship. E

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Kraine as in the contract of t

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		PACKAGING MATERIALS CUSHIONING MAPER	Packaging materials disposability ratings Cushioning materials, cellulosic		
Spacification No.	Specification	Applicable Specifications Mathial Chemical Composition	Common Znà 1888	Roune	Remarks
PPP-C-843	Cuahloning matorial cellulosic	Any cellulonic typo material as specified by procuring agency. Cellulose		Wil, for c sione turns itoms	Class A: for fillin voids in containers Class D: for wrapping material to protect from abrasiory
H11-H-9884	Honovace material cushionity, paper	Papor, honoycomb structure. Unhleached kraftfibors - 100% collulose: Adhesive: water resistant	irimarily for impact, wheregy dissipation for airdress apara-	Mil, except for occa- sional re- turnable items	1
M11-G-23734	Cushioning caterial cellulosic, troated free flow, tubular	Laminated kralt papor (collu- lose), Adhesivo: Jator-rosis- tant; Rosins: synthetic	Packaging, cushicains 6 dumbayn applications where a fulk free flowing, non-correstor material is required to protect %, agilo equipment from demange effects due to shock & vibration		•
ppp-p-291	Roperboard, wrap- ping & cushioning	100% wood pulp fiborr for corrugated or nodule typo; solid news or ground wood pulp typo for solid anolded pulp wood:	Cushioning wrap or to immebilize irrogular shaped objects: a backing shoet is required if material is used as outer wrap-ner	Nil, except for occa- aional re- turnable items	1
Pro-P-150	Panor waxed, shreddod	3	Position leass in containers; limited shock protection	Nil except for occa- sional re- turnable items	Available as long or short shrods
			·	Ç	

PACKAGING MATERIALS DISPOSABILITY RATINGS CUSHIONING MATERIAL: PELT

										T					Ship	ş Ş			T		T .	
														Disposability Rating Vie	Storace Aboard Ship	for 1 ransfer Shore Base	Excallent	Excellent	Excellent	Excollent	Excellent	Excellent
														Disposabi	(6)	Marina Jottisoning(4)	Excollent	Excellent	Excellent	Zxcollent.	Sxcellent	Excellon t
														montal	۵t	Maring	N11	H11	Ní 1	Nil	111	N 3 1.
										***************************************				Environmental	- 74	Atmo- aphara	NA	NII	111	N11	N11.(3) H11	N11(5) N11
					n number: from 10 to 47											Effact(s) on cossing Equipment	ł	HII	N11(1)	N11(1)	N11(3)	N11(1),(3)
Kt pigo	st page	naxt page	next page	ideiy, noncritical	epunding on cleasification number:						considerable spring back			l Processing	oard Processing Feasib		¥.	Poor	Fai.z(1)	(۲)	Excollent	Shreddor, fair(1) incinerator; excel- lent
Rofer to next	Refer to next	Rofor to na	Rofur to ne	Varios wide	Varies d	NIL	Slow	Excellent	x 6,500	Fn.r(1)	Pocr, consid	i - †	^	Predispess	Shieb	Ruso of Prehandling by Ships! Personnel	lone	lent	Excellent(1)	Excellent(1.)	lont	Kxcollent(1)
tona	nition			Xo	y nadde	ξĶ			, appro		-					gaso c	Ex :01]	Excellent	Excel]	Excel]	Excellent	Excell
Applicable Spacifications	Chemical Namo & Composition	Common End Uses	Reuse Capability	Specific Gravity, app	Bulk Donsity, 1b/ft2, approc.	M quotic Susceptibil 1	Blodegradability	Conbustibility	Heaving Value, Btu/IF	Shreddability	Compacta'z 111ty		Sulfur, %, approx		Carlos re Carlos	Processing Equipment	Nons	Compactor	Shreddor	Shredder/Compactor	Incinerator	Shrødder/Incinerator

1) Bundlos or large masses of felt sheet shound not be fed at one time into shredder, in order to avoid jamming or clogging of the units.

(2) New North Comments of an appractable volume of sulfur dioxide. However, the proportion of wool in the total waste packaging (3) When burned, wool gives off an appractable volume of sulfur dioxide in the incinerator stack effluent gas in correspondingly low and is expected material mix is no small that the volume of sulfur dioxide in the incinerator, as a factor either on the environment ext on the operation of the incinerator.

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PACKAGING MATERIALS DISPOSABILITY RATINGS

CUSHIONING MATERIAL! FELT

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ent, prim dicirmandicidal ind Aprend Leremotophics	Remarks	
	Reuse Capability	only for coorsions litoms
	Common End Usas	H-26-S & H-26-R: insulation where temperature will not exceed 120° F for cushioning, padding, packing, & crating of greater than one time use; vibration mountings & dust shielding where mederate strongth & abrasion resistance strongth & abrasion resistance are required. Vibration & shock mounts for long-texm operation. Ammo components when class N filter elements; H-45-S & H-47-R: cu: ioning, packing, padding, & sh.clding where high ternogth & abrasion resistance are required. Vibration & shock mounts for long-term operation when class N. Polishing bonents when class N. Polishing packing, padding, & shish-ing-where unusual strength, hird-owes, & abrasion resistance are required. Vibration & shock mounts for N. Vy loading & high fraquency. Armo components when fraquency. Armo components when fraquency. Armo components when class N. Heavy-duty polishing blocks, wheels, pads, wipers, applicators, & filters
Applicable Specifications	Material Chemical Composition	po po
	Specitication Title	Felt sheat (hair) & felt roil (hair)
	tion	7-F-202

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Γ	•	<u>, </u>		
	Remarka			
	Rausa	Only for occasional roturnablo items		
 ng materials disporability datings Ioning Haterial? Frlt (codt)	Common End Uses	Refor to attached tables I, II, & III (pages for auggested uses of various classifications of type I, II, & III felts, respectively	As For specifications C-7-202 & C-F-206	
PACKAGING MATERIALS DISPOSABILITY DAT CUSHIONING HATERIAL! FELT (Cont)	Applicable Specifications Material Chemical Composition	III. III. Oor	Exite processed in accordance with this specification are covared by the applicable felt specification or C.F. 206: r) idew resistance agent: 2,2 sellylone bis-(4-chicrophranol) or salicylandide; moisture resistance agent: wax (hydrocarbon) or a metallic salt-wax corpound or emulation	
	Specification Title	Folt, wool, prossed a folt, wool, prossed a	Folt, helr, or wool! Raildew resintant & woicture resistant, treatment for	
	Specification No.	0.5-206	MIL-F-2312	

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Packaging materials disposability ratings cushioning paterial; Felt (cont)

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rables 1., 11, and 111 show the suggested application for the various classifications of type I, 11, and INI falus, respectively.

FELTS

Typ: 1 Felts

Type I falts covered by this specification are classified by a code letter consisting of the latter "R" preceded by a numeral to indicate consistency in terms of density (unit weight in pounds per square yard of 1-inch nominal thickness) and reliewed by a second numeral to indicate the difference in class based on specification requirements and as follows:

	<u>Classification</u> 16:1	2.1A## 1,2,3 1x,3%	posignation Backehuck Ball bearing
5 Soft pad 1,2,3,4,5 Pain pad 1,2,3 Extx% firm pad 2x Lining			16:1 18n

Notes: T... x" Indicates fult loss than 1/8 inch in thicknoss.

TABLE I. Suggested service applications for type I felts

Suggested Bervice Applications desired. For uses where a hard, high-grade felt possessing long wearing proparties is desired. For oil retention in installations where the felt is not compresses, for feeding low viscosity or light oil, and where unusual itrength and hardness are required. Washurs; bushings, wicks; ink rolls & pads; door bumpersy polishing blocks, which & pads; grommers; window channels; rusilient mountings, antivibration & dampening pads; & parts where wear & estatance to abrasion are required are typical uses. Fur vibration, sometings, oil & greate shields, & the same general purposes as 16R1 where a feit of slightly lower quality is satisfactory.	For ammunition components. For aircraft applications; botween rocker arm covers of engines, ring conlings, radio cushio, strips, retaining & feeding oil under difficult conditions, washers & bushings.	For dust shields, wigers, grense retainer washers, wicks, vibrution mountings, & uses where a resilient felt is required.	For grease & oil retention where the fait is confined & compressed in assembly. Also recommended for dust shields under less severe operating conditions where 12R1, 12R2, & 12R3 are not required.
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PACKAGING MATERIALS DISPOSABILITY RATINGS CUSHIONING MATERIAL; FELT (Cont)

TABLE I. (Cont.)

Number 984	For sound deadening, chassis strips, spacers, dust shields, pedal pads, dash liners, & for machanical purposes where abrasion & wear are not important factors.
885	For packing or padding when held in place between other materials. This grade should not be used for machanical purposes.
16R1X	For ball & roller bearing oil retainer washeru & small dust excluding washers. Also for machanical purposes where an accurate, thin, amooth, high-grade folt is required.
16R3K	For the same general ugns as 16NLX but in installations where tolerances & length of life are not as important. Also for thin cut parts such as gaskets & liners.
12R5K	For antiaquenk strips & for lining when cemented to fiberboard or motal panels.

Type II Pelts

Type II falts covered by this specification are classified by a code letter consisting of the letter "S" preceded by a numeral to indicate consistency in terms of density (unit weight in pounds per square yard of 1-inch nominal thickness) and followed by a second numeral to indicate class based on specification requirements and as follows:

		Don't.		•	3
Classification	Class	Designation	Classification	Cland	Designation
328	1 to 4	Extra hard	168	1 to 4	Soft
263	1 to 4	Hard	125	l to 4	Extra soft
208	1 to 4	Medium			

PACKAGING MATERIALS DISPOSABILITY RATINGS CUSHIONING MATERIAL; FELT (Cont)

TABLE Is Suggested service applications for type IX [4]ta

Sorvien Application For use as extra hard-density polishing wheels & buffe in dental, jewelry, glass, & lapidary c polishing; also hard washers, bumpers, & chaters.	For use as hard-density polishing wheels for glass sheet, ylassware, ophthalmic lens polishing, of metallographic polishing, wood polishing & furniture rubbing; also for block cutters, rse print rolls, cash carrier heads, points for making pens, casters, boot & shee soles, artificial limbs.	For use As medium hard-density polishing wheels & buffs for polishing ienses, mirrors & glass, o marble & grantes also for finid transfer rolls, ink rolls (securing), furniture rubbing, rso rough metal polishing, metal wiping, drilled wicks, bearing seal washers, stamp pads, cushioning under s/ndpaper.	For use as medium-density polishing wheels & buffs for practous metal & plastic polithing, a rough optical polishing, metal wiping, drum beaters; also drilled wicke, bearing suals, shoe rels (shank), fluid transfer rolls, o'l & fluid wicks, grease & oil retaining washers, ink rollers, vibration & shock mountings, bumpers, plugs, glass channels.	For use as soft-density polishing wheels & buffa for polishing plactic, polishing & wiping a brass; also for plano wadge, surgical pads, punched wicks, damponers, absorbent pads, oil & rse fluid retainers, fluid transfer rolls, bearing senls, washers, wicks, shim & spacer pads, shoe insoles, dust shields, antivibration pad.
Qualitics 32 S I fins 32 S 2 medium Clare 32 S 3 medium coarse 32 S 4 coarse	26 s 1 fina 26 s 2 modium fine 26 s 3 modium coarsa 26 s 4 coarsa	20 s l fino 20 s s modium fino 20 s 3 modium coarso 20 s 4 coarso	16 s 1 fine 16 s 2 medium fine 16 s 3 medium coarse 16 s 4 coarse	12 S 1 fine 12 S 2 medium fine 12 S 3 medium coarse 12 S 4 coarse
Classification 325 extra hard	265 hard	203 med Lun	165 soft	128 extra soft

Type III Felts

Type III falts covered by this apecification are classified by a code letter consisting of the letter "A" praceded by a numeral to indicate difference in commercial designation & followed by a second numeral to indicate the color class burnd on specification requirements and as follows:

THE REPORT OF THE PROPERTY OF

Trade Designation	Chevron backing, auto flats, & face mask Orthopedic truss & athletic padding Surgical Midsole
Class	નનન હ
Classification	&&&&
Trado Designation	Coat front Lining; lining, shoe tongue Lining Undorcollar, face mask Chevron facing, cap
Claps	1,2
Classification	చ్ల భశిశ

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PACKAGING MATERIALS DISPOSABILITY RATINGS

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CUSKICHING MATERIAL; FELT (Cont)

TABLE III. Suggested service applications for type III felts

salar Try salar construction of the try to t	For use in fronts of coats to give required fullnoss & drape to outer fabrics,	For use as a lining naterial in outer wear gs-monts.	For use as a lining on inside of the shos tengue, generally white in color. Dacking for household objects to prevent scratching or marking furniture.	Por use in garment decoration, background for exbroidered designed hat bodies, undercollar cloth, military insignia.	For use as padding on orthopodic & truss appliances, athletic equipment padding.	This type of felt can be pulled down in layers to graduated thicknesses needed for medical requirements.
	Coat front folk	Lining Felt	Lining, shoe tongue falt	Chevron, face mask, hat body, undercollar felt	Orthopodic, truss & athlotic padding falt	surgical folt

For use in footwear as lining or inserts.

Midsole

THE PARTY OF THE P PACKAGING MATERIALS DISPOSABILITY RATINGS CUSHIONING MATERIALS, FIBER GLASS

Applicable Specifications	Rufer to	wat page				
Chamical Name & Composition	on Refer to	next page		-		
Common End Unot	Rofor to	next page				
Reuge Capability	Refer to	next page				
Specific Gravity, approx	2.31 non-	tions				
Built Bong to 15/ft? Aportox	noprox 97%					
THE SUBSTITUTE OF THE STATE OF						
niodeuradability						
Combustibility						
Heating Value, Btu/lb,	approx					
Shruddahi 14 tu	(2)					
Compactability	Poor; consid	Poor; considerable springback				
Sulfur, %, approx	Zero					
	Dred 1 apost	Predianosal Processing		Environmental		
	dalda	oard Processing Feasible	lity	Impact	_	-
Shipboard Diapoual	Easn of Prehandling		Effect(s) on	Atmo- Marine	Jettisoning	for Transfer to Shore Base
Processing Education	by Ships' Paracanel	of Processing	TOCOPRING PORTE	112	Excellent	Excellent
None	Excellent(1) N	<u> </u>	·	;		
Compactor	Excellent(1;	Poor	NII	NA NA11	Exce, lent	Excellent
Shrodder	Excellent(1),(2)	G00d(2)	NII	IN NII	Excollent	Excellant
		(6)		1.4.N	Excellent	Excellent
Shredder/Compactor	Excellent(1),(2)	Fair(c)	איז (כּ /			
Incinerator	Excellent(1)	Excellent(3)	NII	NA NAIL	Bxcallent	Excollent
Chairldon/facinorstor	Ryco (dat (1) (9)	Excellent(2)(3)	N11(P)	IN NII	Excellent	Excellent
	(a) (/ a) a sansaya		,			
				4 12 4	come into intim	it the mate in to some into intimate contact with the

(1) precaution: Personnel who handle fiber glass for an extended period and permit the mate-ia, to come into intimate contact with the akin, m, experience considerable skin irritation. They also should breathing first from the material. Suitable provective measures should be taken to minimize those potential hazards.

(2) Period shalles or large masses of fiber glass at one time into shredders should be avided

(3) Piber glass is non-combustible. It melts at about 1500°F, well below normal operating temporatures prevailing in incinerators, and would pass through incinerator grates into ash pits. Only traces of molten glass maybe expected to spirtur on acid refractory linkings with no significant adverse offects. However, feeding large quantities of fiber glass at any one time into incinerators should be avoided THE PROPERTY OF THE PARTY OF TH

Comment of the Color of the Col

Preceding page blank

PACKAGING MATERIALS DISPOSABILITY RATINGS CUSHIONING PATERIALS, PIBER GLASS

 Remarks	
Rouso Capability	Only for occasional returnable items
Common End Uses	Protection of packaged or installed equipment against shock and vibration
Material Chemical Composition	lcium ith pre
Specification Title	fibrous glass
Specification No.	HIL-C-17435

TOOK THE DESIGNATION OF THE PROPERTY OF THE PR

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PACKAGING MATERIALS DISPOSABILITY RATINGS CUSHIONING MATERIALS, POAMS

Applicable Specifications Chemical Name & Composition	n Refer to	שמעד השמש					
Common End Uses		next page	The second of definition is a second of the				
Reuse Capability	Refer to	next page					
Specific Gravity, appr		Varies widely depending on composition, not critical	ition, not critical				
Bulk Density, 1b/it3, approx	Varion w	dely depending on composition, 0.5 to	ition: 0.5 to 2.0				
Magnetic Susceptib/lift	NII						
Biodegradability	Extrowel	y alow					
Combustibility						referencements and second seco	
Meating Value, Dtu/15.		00, depending on indivi	17,000/20,000, depending on individual plastics & fornulation,	tion,			ميزهاسيوري ورزياني مرزين ورواني ورواني
Shreddability	(Fair ())	, pasteri et este este este este este este este	AND THE RESERVE AND THE PROPERTY OF THE PROPER				
Compactability	Poor; consi	Poor; considerable springback					
Sulfur, %, approx	up to 0.5%	nighty of the family to the state of the sta					
	Prediaposa!	1 Processing		En./ironmental		Lidesconfil	Disposability Rating Via
Chichonnel Dianogal	Shipb	ard	ł. I	Impact			Storage Aboard Ship
+	Easo. of Prehandling		Effect(s) on	Atmo-		Jottisoning (2)	Jottisoning (2) for Transfer to
superfect forms	by Ships' Personnel	of Processing	cocossing Equipment	sphere	5		Shore Base
Моле	Excollent	MA M	NA	אא	TIN	Excellent	Excellent
fompactor	Excellent	Poor	NI 1	NII	LIN	Excellent	Excellent
Shredder	Excellent (1)	Fair (1)	M11(1)	NII N	NIT	Excellent	Excellent
Shreddar/Compactor	Excellent (1)	Poor (1)	N11(1)	N 111	NT1	Excellent	Excellent
Inclustator	Excellent	Excellent	Nil	NII B	HIL	Excellent	Excellent
Shreddar/Incin ator	Excellent (1)	Shredder: Fair (1)	N11(1)	NII N	TIN	Excellera	Excellent
		Incinerator: Excel- lent					

(1)Bundles or large masses of feams, especially sheet form, should not be fed at one time into shredders in order to avoid jamming or clogging of the units.

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PACKAGING MATERIALS DIGPOSABILITY RATINGS CUSHIONING MATERIALS, FOAMS

	ter yaying di relat kuga garahada daga kata kata kata da yara da saka saka	Appropriate to the Charlette to the	فيسترين والمستود والمستود والمستود والمسترف ووالمتراود والمستود والمستود والمستود	-	
Specification	Specification Title	Chemical Composition	Common End Uses	Rev 9	Romarks
PPP-C. 1797	Cushioning materiul. rosilient, low der . e.ty, unicollutar eolypropylend foam	Polypropylene (nydrocarbon) plus nen-flammable, non-explo- sive blowing agent; no fungi- cide nor toxic material	For une at timparatures -54°C to 71°C trotective cushioned wrap to. 10w density itoms; thermal insulator; surface protection for high density itoms for urface protection of optical lenses, equipment with crit cal aurfaces, electrical sulectionic equipment, glassware, cormica, magnet., tape rolln	100	Foan can be laminated to raper, paper board, plastics, tex- tiles, etc. Non- dusting & non-linting
M11-R-6130	Rubber, cellular, chamically blown.	Rubbank free of concentud bonded shradard, or reprocessed callular rubbar; Grade A: natural vizion not paratted; Gradeu B & C: composition is unrastricted. To be packed with febric coment, etc., when & as apecified; blown with sodium bicarbonate or nitrogen; grades A & C may or may not have skin	Type 1 (open cell); whock ubscribing tradiq apparatus for mounting radiq apparatus & aircraft interactions of arcuments, in crash pade & cohor uses requiring a material capable of absorting shock & damping vibrations. Type II (c)osed coll); flotation gear (skin or film form only), uxpanain joint fillers, gaskets, & shock pade where water repollent qualities are desixed.		Three grades Grade A: vesistance quired; Grade B: rc- sistance to oil not required; Grade C: low temperature nr- sistance but not oil resistance, is rc- quired
8127-8-136-24	Plartic Foam, mold- ed, polystyrene (ex- panded brad or pol- ler type)	Polystyrena (hydrocarbon)	winished shapes for use whore light weight, medium reshing strongth, durability, resistance to wachering & possible con- tact with oily materials are required. For use at tempera- tures, 60 to 165°?		May or may not bo fire retarnes or o'l resistant
M11-P-26514	Polyurothane foam, rigid or elastic, for packaging	Polyure, lane	Packnging medical materials, specimens, biologicals	Only for occasional returnable items	1
M11-C- 46842	Cuphioning material unicollular, polyatinglane form (for peckaging)	Polyethylene (hydrocarbon)	Cushioning & packaging upplica- tions as a khock absorption and vibrations damping medium; for use at temperature ranges -65 to 165°F	Only for occasional returnable items	-

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PACKAGING MA. ERIALS DISPOSABILITY RATINGS CUSHIONING JUTERIALS, FOAM

	Remarku	
	Rouse	
	Common End Uras	Cushioning & pickaging applications, in thin actions where surface privaction, floxibility & realigned are necessificationed are necessifications and contributions and surfaces, olectrical fortical surfaces, olectrical fustruments, atc.
Applicable Spicifications	Material Chemical Composition	
The M. Construct of Section of Construction Sections in the Laboratory of the Construction of the Construction of Construction	Specification Title	Cushioning saturial, public form, low danalty, unicallular, polypropylene form
	Specification No.	M41 - 5-01 82.7

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THEREPORTIONS WELLICE CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROL CON

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Packaging Materials Disposability Hatings Cushion Materials, Resilient

Applicat's Spacifications	clens Rufar	to next	5/49@						_
Chamical Hamo & Composition	bullion Hofer to	next	page	omite's wings of passages with the statement of the state					~
Common End //was		to noxt page	page	restrict graft & refrestriction and connecting transfer restriction and the second			middle company and Separate Company Service Company of	المادة ول الرئيسة المستونية المستونية والمستونية والمستونية والمستونية والمستونية والمستونية والمستونية والمستونية	_
Reuge Capability		to next	pliqé						,
Specific Gravity, opp	prox Varior vi	r videly	idely depending on composition, not critical	ition, not critical					
Bulk Danelty, 15/ft3, appress	Approx Refor	to noxt	Refor to noxt page under "Remarks"	-					_
Anymotic Susceptibility	1 Ey N1,3								-
Diodenyendati Lity	Extremal	maly alow							_
Combustibi lity	Excellen	lent.					منسر ينتثرنج سانفة سأنج ستقدالة فالاستنسانان		-
Heating Value, Btu/li	A approx Veriu	de1y	depending on specific composition	ic composition		·			
Shreadhor 11ty	Parr (1)	(1)	***************************************				***************************************		-
Compactability	Prori	consider	considerable apringback	· · · · · · · · · · · · · · · · · · ·					_
Sultur, %, approx	Up to O.	. 0.5%							_
A A A A A A A A A A A A A A A A A A A	PERM	Predisposal P	Processing		Environmental	mental	Dieposabil	Disposability Rating Via	_
Shirten Salaria		Shipbonr	d Processing Feasib	i . i	Impact	_		Storage Aboard Ship	
Precounts Equipment	East 5: Prehandl.	ndling	ing Rolative Easo	Effect(s) on consing Equipment	Atmo-	Marino	Jattisoning(2)	for Transfer to	
Nextso	Excullent	NH.		1	M.A.	NII	Excellent	Excellent	
Compactor	Exceliont	Po	Poor	N.I.	NII	N11	Excellent	Excellent	
Bhrodiler	Excellent (1)	Fu	Fulr (1)	N11 (1)	N11	N11	Excellent	Excellont	
Shredday/Compactor	Excellent (1)	- Bo	Pour (1)	N11 (1)	N11	N1.1	Excellent	Excellent	
Inclinkatok	Exectiont	23	Excellent	N5.1	NA1	K11	Excallent	Excellent	
Bureddor/Kucanecator	Excellent (1)	Sh In	Shroddor: Palr (1) Incinovator: Excel- lont	N11 (1)	NA.1	178	Excellent	Rxc#llant.	
(6)								The Constitution of the Co	

(1) bundlow or large mannes of resilient cushioning moterials should not be fed at one time into shredders in order to avoid jamming or logging the unite.
(2) Regarive buoyancy required.

CONTRACTOR CONTRACTOR IN THE SECOND SECTION OF THE SECOND SECOND

Packaging materials disposability ratings cushioning haterials, restlient

	Romarks	Non-abrasive, fun- gus & mold resistant typical bulking,den- stitues in lb/ft', class 1 0.4 - 0.8 Class 2 0.6 - 0.9 Class 3 0.9 - 1.8 Class 4 0.8 - 1.2	Material shall not carnish or corrode brase, steel, aluminum, or zinc; shall be compatible with onamol & fhonolic varnish, bulking density, lb/ft2, l8 typical	Materiain procured under this spec. arc not used in dun-naga or in other. areas where full. value of their cushioning ability is not realized; bulkling density to be specified by procuring agency
Applicable Specifications	Reuro Capability	Only for occasional returnablo itama	Unly for occnsional roturnablo itomo	Only for occaetone) returnable itemu
	Common End Usess	Cushion material within packages to protect froms from damage due to shock, vibration, abrations, and concentrated forces during handling & shipment, where a high degree of energy absorption is required; provide temperature insulation; useful temperature range: -65 to 165 °F.	Packaging material inside water- proof amminition containers; intended to be Yabricated into circular or square pads to fur- nich required tolerance take- up within containers	For use within packagen to pro- toct equipment from shocks or impacts incurred during ship- menic and handling
	Material Chemical Composition	Expanded polymers or copolymers of polystyrone (hydrocarbon) shall contain no froe sulfur	of such materials & by such processes as to assure compliance with spec. Examples of proviously specified compositions: Whol fult (wool & cotton blend) Clastifications: SK5 & 12R3 Spec. C-7-206; Hair folt, type 4, Class 2, Sonc. C-F-202	Any resiliont macerial complying with apocific requirements; qualified macerials usually are composed of ether interlocking or bonded fibers or an clastomutic material
	Specification Title	Cushioning material polys in, ox- yandod, resilient (for packaging uses	Padding mewarials, realliest (for packaging of ammu- nitios)	Cushioning material, realifont type, general
A specie of the species of the species of	Specification No.	PPP-C-850	HII-P-13607	X11-C-26861

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CUSHIONIEG MATERIAL, WOOD, BOARD, AND MESILIANENIS

-		3	JEHLONIEG MATERIAL, HC	COSMIONING ANTERIAL, MOOD, BOARD, AND MICHELLANDOUS	SOOR		
Applicable gracifications		of the so	3K . paye				
Common End Hang	Т	stor to no	ored 7x	marries to appear I marrie by the property of the state o	***************************************		THE CONTRACTOR OF PERSONS AND ADDRESS OF THE PERSONS ASSESSED.
Rouse Capability	Ī	For to no	art page	reference descriptions to be appropriately described by the second second productions for the second		وبزي بمعدد وسيديدون ويوينسانين والمرينسانين والمرينية ومجود والمرين	
Fpecific Gravity, approx	Π	meritical	Noncettical; wood 0.4/0.7% fillurhoard, 0.77 3:	urboard, 0 771 16		A CONTRACTOR OF THE PROPERTY O	enter and and and section of the sec
Bulk honsity, 1b/ft),	porox	10010100					restruct beautiful of the beautiful special and the second
Magnetic Succeptibil		1	V. 12/ 4.0/ . iborboard	NII CONTROL OF THE PROPERTY (MINANTERS), NOT TONE THE ROLL OF	thun 40	بجدراسهما استبدا المساهد وجويري والمعارس المراسد	de el prese de ser a finales fictularis séries , a entres asses
Combustibility		Extremely alow	low	Same principal deficiency and provide the same but to be the same of the same			Andrew The State Street, Street, St. Stree
Heating Value, Btu/1	b, approx Ex	collent	Heating Value, Meu/lb, approx Excelsior, 8,500; fiberboard: 7,800; wood; Rich	300; Wocil, B.Kon		established by restrict to the seminated by the services of the seminated by the services of t	A CALLES AND
Shreddability Compactability	ă ă	colstor &	Executator & Liberboard, executiont; wood; execution: Executator, composition, & fiberboard; talk/sagelleng	E; wood: excellent	randa adal alama to asa in	Parametel 1997 tera princement maney actions at the proof to age to	Andrews total environmental en
Sulfur, %, approx	0	0.15			ned edited by my a period and equality pe	والمراد والمرا	
	G	Prod i anona	Dreces				-
Shipboard Dinggan!		Shinb	Shipboard Processing Possible		Kn Varonments 1	-	Discount 14th one 12th
Provessing Equipment		ohand 11ng	Rolative Ease	Effortes es	tribalet		Storage Abound Ship
Nona	Excellent	Porsonnal		_	Andreas Hier	Karina Jettisonin-(1)	
			- A	NA	NA TCAL	Excellone	Skcollent
Compactor	Excellant		Exculsior: folr;			-	* Parkey
Shrodder			fiborboard: gcod; wood: excallent	-/	718 118	Excellent	Excallunt
	Excellent		Excollent	NII	NAJ LAN	Bxcellant.	Execlient
Shradder/Compactor	Excellent	-					
	- 2		fiberboard; good;	N11	NJ. THE	Expollent.	Excellant
Incinurator	Excellent		Excullent	341	NII TIN	Excellent	
Shredder Waltrous					,		200712007
101810181018101810181018101810181018101	Excellent		Excellent	N.1.1	NII NII	Excellent	Bxcollant
(1) Negative bucyanty required.	nqui rod.	7			, - 		

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PACKAGING MATERIALS DISPOSABILITY RATINGS CUSHIONING MATERIAL, WOOD, BOARD, AND MISCELLANDJUS

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STEEL STEEL

	Romarks	ı	•	
	Rouse	for Only for occasional le raturnable items	Only for occasional returnable items	Only for occasional temms temps temms temps temp
ining opening to a common setting of the setting and setting and setting and setting a setting a setting a set	Compon End Uses	Packago cushioning, stuffing for cushions, scats, & materosses; lighter grades for nore fragile items	Dowigned for cutting into fill- lor & cubhoning pads; for use where water-wesistant material is required & where resistance to compression is more impor- tant than restlience, e.g., in exterior oblipping containers for ammunition other than small arms ammunition; not intended for container construction	Intarior cushioning & blocking
Applicable Specifications	Material (Nomical Composition	Wood (cellulosa - lignin)	Componition: wood, water resistant (cellulose + lignin)	Singlo & multiply fiborboard, fiborboard chamical pulp, clean waste genurated & forugoing plus, additulves as requirud; fiborboard; collulose; fungicide: unidentified
Section and Basic Control of the Con	Spacification Title	Excel*lor, wood, fabricated pads & bulk form	Board, composition, water-resistant, acid (for filler or cushioning pads)	Piborboard, nolid, noncorrogive, Evngi- realgannt, for interior blocking operations
***************************************	Specification No.	8PP-C-911	H1L-B-7106	MIL -F -26862

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Packaging Materials Dibposability Ratings Desiccants

Applicable Specifications Chemical Name & Composition	Refor to	noxt page	A COMMENTAL DE LA COMMENTAL DE				
Common End Uses	Rofor to	noxt paga					
Reugo Capability	Rofor to	laxt page			-		
Specific Gravity, approx	אא		o bestieble constitutional and accompanies of the constitution of				
Bulk Denaity, 15/ft3, a	approx NA	AND THE PROPERTY OF THE PROPER	***************************************				
Magnetic Susceptibili			Address of the state of the sta	***************************************			<u></u>
Diodegradability	Desiccant	nil; deulccant contain	חסבי פינדיהסני שוסש	-			
Combustibility	Dosleant	is noncombustible; des		combuntible	-		The state of the s
Her ting Value, Btu/lb,	approx Desiccant	inili contulmare other than glais: 7,500					
Shreddability	Sog noto	1)					
Compactability	Excellent					***************************************	
		,	•				
Sulfur, %, approx	Varies fro	Virias from zero for some desicents	ints to up to 24% for calcium suitsto Annyarous	iciua su	Ifato	innyarous	
	Prediaposs	Prodisposal Processing		Environmental	Jontal	Disposabl	Disposabilitor Cartan Cta
Shirboard Diamen	idīus	coard Processing Peasib	llity	Imixact	ب		Storage Aboard obto
Processing Sculpment	Ease of Prohandling	Rolative Sase	Effect(s) on	Atmo.		Jettisching (2)	for Transfer to
	by Ships Personnel	2	cocossing Equipment	Jane	arına		
on on	Excallent	NA NA		e Sa	NII	Excallent	Excullent
Compactor	Excellent	Excellent	N11	HIII.	1111	Excellent	Excellent
-							
Shredder	Note (1.)	Unsa miss factory(1)	Note (1)	£.	₹ Z	¥N.	NA.
Shreddor/Compactor	Note (1)	Unsatisfactory(1)	Note (1)	Z.	SE.	VN	KA
Incinerator	Noto (1,	Unsatisfactory(1)	Note (1)	NA NA	NA NA	Y.	NA
Shredder/Incinerator	Note (1)	Uneatisfactory(1)	Nota (1)	8	5	МА	NA
		<u> </u>		_	-		

(1) Sport or "dead" destecant no longer suitable for regeneration requires no chipboard processing prior to disposal. Occasionally it any be helpful to compact it with other waste meterials prior to disposal. Processing it in shredders or incinerators offere no adventage and could be harmful; therefore rated unsatisfactory.

(2) Wherever feasible, disposal by jettisoning likely is preferable to storage aboard ship for transfer to 2, shore base for eventual

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PACKAGING MATERIALS DISPOSABILITY HATINGS DESICCANTS

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	Rumarko		Type I - large particle size: Grade H - high bdsorption capucity Grade N - medium adsorption capacity Type II - medium particle size: Grades H & M particle size: Grades IV - medium particle size: Grades H & M type II - medium particle size: Grades H & M type II - medium particle size: Grades H & M type II - medium particle size: Grades H & M type II - medium particle size with a humidiey indica- tor: Grave H	-
<u> </u>	Rouse	N1.1	ил	4N
and the second s	Common End Uses	Maintain noisture free atmos- phere in packages	Types I & II: for use in mechanical dohumidification machines of the regenerative type Type IV: for use in indicator cards of humiplugs where an approximate indication of relative fumidity is required	symbols, physical & chomical ary & typical commorcial usos, te, laboling, storage informa- ivated desiccants
Applicable Specifications	Material Chemical Composition	Silico gal (silicon dioxide)	Dumicant somposition not apocified but may be composed of: alumina; calcium sulfate; anhydrous; clay; molecular sioves; silica gel; all of which have been activated to adsorb water	A presentation of nemerclature, symbols, physical & chemical properties & requirements, military & typical commercial uses, directions for use, packaging date, labeling, storage information & shelf life of military activated desiceants
e de d'emplemajo mais desper e e esper d'en aqualles des annas, é après de la jeune se estre de mon	Specification Title	Dosiccantu, acti- vated, bagged, packnying use & static dehumidifi- cation	intu, acti- for dynamic ulfication	Activated dosic-cants
	Spectfication No.	MIXD3464	MIL-D-3716	MIL-STD-1427

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PACKAGING MATERIALS DISPOSABILITY RATINGS DRUMS, PAILS, METAL

A Composition Refer to next page 1. & Composition Refer to next page 1. Ity Execution to the content of the co		Combustibility Hesting Value, Dtw/lb, approx Nil Excellent Excellent	<i>y</i>	Motals & polydenytain. Disposabil	Impact	Enuo of Prohandling Rolativo Enuo Processing Equipment sphere vive by the paragraph of Processing Processing Fraction of Processing Processing Fraction of Processing Processing Fraction of Processing Processin	Excellent NA NA	Excellent(2) Excellent(2) Nil Nil Excellent Excellent	Excallent(2) Excallent(2) Nil Nil Excellent	mpactor Excellent(2) Excellent(2) Nil Nil Nil Lxcellent Excellent	(5) NA NA NA NA NA	cinorator Excellent(2) Excellent(2),(3) H11(3) H11(3) Hill Excellent
Applicable Specifications Chemical Name & Composition Common End Usus Reuso Capability	Specific Gravity, approx Bulk bensity, 1b/ft', approx Hagnetic Susceptibility Richardability	Combustibility Heating Value, Dtw/lb, ap	Compactability Unshradded Shredded	Sulfur, %, approx		Shipboard Diaposal Eng		Compactor	Shrodder	Shredder/Compactor Ex	Incinerator (5) NA	Shredder/Incinerator B

instructions for individual materials, before containers are reused, processed in shipboard disposal equipment, jettisoned, or Dopleted containers of potentially hazardous materials must be handled as required for removal of residual contents in accordance with

spacific instructions for individual materials, buscus containes ... strong for the part of 1973.

Atored aboard ship for transfer to shore base for further handling. Raf! NAVSUP publ 4500 CHIL. 1 July 1973.

Atored aboard ship for transfer to shore base for further handling. Compactors and/or shredders, unsatisfactory for larger containers.

(2) Applies only to small pails which fit into feed hoppers of shipboard compactors into ash pits without advorse effects on the units. (3) It is a summed that shredded steel will pass readily through grates of incinerators into ash pits without adverse effects on the units. Aluminum will melt at incinerator operating temperatures & will pass through grates into ash pit without adverse operational effects. (4) From a practical viewpoint, disposal of drums no longer reusable likely can be best handled by jettisoning.
(5) It is not expected that rejected containers will be fed into incinerators without preshredding.

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PACKAGING MATERIALS DISPOSABILITY RATINGS DRUHS, PAILS, METAL

and the supplemental supplement

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		שטואיזיכטום פוספייויזים	<u> </u>		1
Specification	Spacification	Chemical Composition	Conmon End Uses	Cupability	Reinarks
PPP-D-700	Drums, shilpping &	_	Shipment & storage of acids &	<u> </u>	See note (2); prior
	storogo. 55 gallons	5A unlined accel		_	
	(for acids & corre-	Sc correction resistant			-dualiar shall sub-
	sive liquida)	,			mit satisfactory
		III 5D lined steel			evidence that drums
		ì			most applicable Dept.
					of Transportation
	-	,			applicable specifi-
200 0 000	Tallette Landers	£ 5.03	A demonstration of the second	Percel Jone (1)	Gor note (9)
CO) "C" 4/4	State atool (10.55		for groups	_	(2) 200
	dallons)				
PPP-13-711	Drugs, mothl, oble-	Stock	Shipment of solidified products	Excellent(1) See note (2	See note (2)
	ping, steel, light-		or powdered or granular (non-		
	weight, 55 gallons		raquintory), not subject to ICC		•
-0-			regulations	-	
622-Q-3dd	Drums, metal, 55	Drum: staol; gasket: rubber	Shipment of nencorrosive mate-	Excellent(1)	Sec note (2)
	gallons (for ship-		rials, e.g., fuels, lubricants,		
	ment of noncorrosive		etc		
	material)				
ti02-d-ddd		vails steels spout: polysthylone	stead; spout; polyethylene Shipment of liquid, powdered,	Excellent(1)	Sou note (2)
	ping, scool, I-12		produces		
C11100-17-01-2	Oruga, steel, 55	11001	Shipment of noncorresive mate-	Excallent(1) Sag note (2	See note (2)
2000			rials		(-)
	reinforced				
KIT-D-605#	Drum, metal, ship-	Steel.	Exterior slipping containers	Excellent(1) See note (2)	Sea nots (2)
and the second second	ping & storago				
M12-D-0025	Drum, motal,	Aluminum, otesi	Reugable Interior & exterior	z) erou sos (r)austra, xal	Sos note (2)
	rousable, shapping		ontpping containers		
	R8-530 cubic inches)			•	-
PP#-P-123	Pails, motal, poiy-	Stael, polyetinylene	Shipment of liquids, powders, &	/Excellent(1) See note (2	See note (2)
	othylong liner		pastos		
P\$P-0-732		Steel	Shipmont of noncorrunive mate-	Excellent(1) See note (2)	See note (2)
-	reconditioned, for		rials		
	noncerrostva mate-			-	
	rials		the same weeks a man and the same		
PPP-D-736	Drums, steel, for	Stocl	Shipment of phospherus	Excellent(1) See note (2)	See note (2)
	The state of the s			-	
	phorus, ary or in				4
	Water	-			
	-				

1) Only until inchaging has deteriorated to rejection level.

(2) Depisted containers of potencially bazardous materials must be handled as reguired for removal of residual contents in accordance with specific instructions for individual materials, before containers are remove, processed in shipboard disposal equipment, jetulanced, or utgred aboard ship for transfer to shore base for further handling. Ref. NAVSUP Publ 4500 CHIL of 1 July 1973.

packaging materials disposability ratings drums, pails, netal (cort)

Applicable Specifications Material	Chemical Composition Common End Usen Capability	Aluminum General shipments	Shipmont of calcium carbida Excellent(1) Sea note (2)	*										
Applicable Specification	Chemical Composition	Aluminum	Steel						`.				•	
 1			Drums, stool, cal- clum carbido		-		,					-		
 lõ	%o.		MIL-D-195											***************************************

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POTANTONIA SELECTION AND SERVICE AND SELECTION AND SELECTI

ences and the state of the stat

PACKAGING MATERIALS DICPOSABILITY RATINGS DRUMS, FIBER

Applicable Spacifications Chemical Name & Composition Common End Uses Reuse Capability Specific Gravity, lb/ft², approx Magnetic Succeptibility Biodegradability Combustibility Heating Value, Btu/lb, approx Shreddahility Compactability Sulfur, %, approx Shipboard Disposal Shipboard Disposal Shipboard Compactor Shredder Compactor Shredder Shredder Shredder Shredder Shredder Excell		Refer to next page Refer to next page Refer to next page Refer to next page Good until deteriorated to rejection level Fiberboard: 0.7/1.15; steel: 7.7; wood: 0.4/0.75; Riberboard: 0.7/1.15; steel: 7.7; wood: 0.4/0.75; Riberboard: 0.7/1.15; steel: 7.7; wood: 0.4/0.75; Riberboard: 0.7/1.15; steel: 7.7; wood: 0.4/0.75; Ricollent accept for metal components Extensity slow Extensity slow Excellent Good: Econe aprin; back Good: Econe aprin; back Steel: zero; cher: 0.15% Fredisposal Processing Shipboard Processing Fredisposal Relative Enso Fredisposal Processing Fredisposal Relative Enso Fredisposal Relative Enso Fredisposal Relative Enso Fredisposal Mill Fredisposal Mill Fredisposal Relative Enso Fredisposal Relative Enso Fredisposal Relative Enso Fredisposal Mill Fredisposa	zero Equipment	Environmental Impact Atmo- Sphere Harina Nil Nil Nil Nil Nil Nil Nil Nil	mental darino Nil Nil	Environmental Disposabil Impact Atmo- Harine Sphere Harine	Dispossbility Rating Via Storage Aboard Ship Storage Aboard Ship for Transfer to Shore Base	
Incinerator	Encollent (1)	Excollent	M11 .	N11	NII	Excellent	Excellent	
Shredder/Incinerator	Excellent (1)	Excellent	NAI	NI 1	NII	Excellent	Excellent	

Preceding page blank

Packaging Materials disposability ratings Drums, Fider

厂		
	Remarks	-
	Roune	Good until deteriorated to rejection level
	Common End Uses	Domustic, normal overseas & military overseas shipment
Applicable Specifications	Material Chomical Composition	Fiberboard sidewalls; callulose; ends; steel, low carbon, own harth, cold rolled; wood; callulose + lignin; plywood; callulose + lignin; paparboard; callulose; adhesive; unidentified; thread; nstural or synthatic; sizing; rosin, shellec, or lacquer on outer wall
	Specification Title	Druma, fiber
	Specification No.	`

THE PROPERTY OF THE SECOND OF

PACKAGING MATERIALS DISPOSABILITY RATINGS DRUMS, PLASTIC

	27														Disposability Rating Via	Storage Aboard Ship	for Transfer to. Shore Base	Excellent	Escellont		Excellent	Excellent	Excellent	Excellent
		***************************************	-4-4		-	,	***************************************		***************************************				***************************************		Disposal		Jettisoning	Excellent	Pone Lent	oner record	Excellent	Excellent	Excellent	Exacllent
	***************************************				-				-						Environmental	act	Atmo- Marine	T N	-	778	N 11	NII	NII	N:1
		******	***************************************	***************************************									***		Enviro	Impact	Atmo- sphero	క్ష		778	NII	ri K	HI	11N
DRUMS, FLASTIC			,	tion level												111ty	Effect(s) on Processing Equipment	N.		NII	N11	NLI	NII	T7N
DROM	next ondo	next page		until deteriorated to rejection	-	1.7		s]ow						0.1%	Predisposal Processing	phoard Processing Feasibility	Relative Ease of Processing	ź		Fair(1)	Excellent	Good (3)	Excellent	Excellent
	Refor to no	Refer to	Rofer	Good, until	26.0	X NA	Н	Extremely	it	!	Excellent	Fair(1)	ı	Loss than 0	Predisposa	Ships	Ease of Probandling by Ships! Personnal	lant		Excallent(3)	Excollont(3)	Excallant(3)	Excellent(3)	Excellent(3)
	lone	sition		`.	rox	approx	ty			, approx							Ease (Excellent		Exce 1	gxco]	Excn]	Exce	
•	Applicable Specifications	Chemical Name & Composition	Common End Uses	Reuse Capability	Specific Gravity, approx	Bulk Donsity, 1b/#t3.	Magnetic Susceptibility	Blodegradability	Combustibility	Reating Value, Rtu/lb,	Shreddability	Compactability Unshredded	Shredded	Sulfur, %, approx			Shipboard Disponal Processing Equipment	None		Compactor	Shroddor	Shradder/Compactor	Incinerator	Shredder/Incinerator

1) Rigid, plastic containers have considerable "springback". (2) Shreddod, plantic containers have some "springback". (3) If they are to be processed aboard ship, drums deteriorated to rejection levels will have to be reduced in size by ship a personnel in order to fit into feed hoppers of processing units.

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Packaging Materiale Wisposability Ratings

A COMPANY OF THE PROPERTY OF T

DRUMS, PLASTIC

	Remarko			
	Rouse Capability	pood, untal deteriorated to rejection level	-	
The contract of the contract o	common End Uses	container for liquids, powders, lood, or pastes; many chemicals; not datax. for use with strong cxidizing to reliquids or allphatic or axomatic level hydrocarbons		, j
Applicable Specifications	thtorial Cliomical compr. 'ton			
or the sections retain president manufactures.	Specification Title	ic thylene		
	Spredfication No.	721-1-40030		

?

PACKAGING MATERIALS DISPOSABILITY RATINGS CASKET MATERIALS

-						
Applicable Specifications	Rofor to	next page				
Chumical Name & Composition	Refer to	next page				
Common 2nd Uses	Refor to	noxt page				
Rouse Capshillty	Rofor to	next page				
Spada tic Gravity, approx	Varies, d	on components	trom 5.4 for cork to 1.5 for synthatic rubber & 2.5 for asbestes	5 for synt	hatic rubber & 2.5	for asbastcs
Buix Beraity, Myfte, approx	approx NA		Andreas of the special sections in the section of t			
Magnatic Susceptibility		Manufactural Control of the Control	والمرابعة والمستقد والمواجعة والمراجعة والمراجعة والمراجعة والمراجعة والمستقدة والمستقدة والمراجعة والمراج		استوام بيد أما و من المار الوام و المار و من المار و ا	
Blodagradubility	Ext.omoly	Blow)		THE PARTY OF THE P
Combunt 15111ty	Excallent					
Heating Value, Btu/lb.	Varins do	pending on composition.	Range: from 7,000 fox		cork to 20,000 for polyathylene	ene
Shruddab) 1 (tv	Wool folts	[hir(1); all others;	oxcollont	***************************************	sot, principality of the Affice Springer Material Control of the C	
Compactability	Rubber sponge:	igu: poor: wool felt:	fulr(1); cloth: falr-good(1); all others:	300d(1); a	Il others: good	
· · · · · · · · · · · · · · · · · · ·	<u> </u>					
Sulfur, K, approx	Varies depa	spanding on composition.	Cork: 0.15%; Rubbar, natural:	į.	2-4; Rubbor, synthotics	itici 21 clothi
	S	Prodisposal Processing		Environmental		Disposability Rating Vis
	Shipb	ard Processing Peasins	Andreas de la company de la co	Impact		Storage Aboard Ship
Processing Equipment	Ease of Prehandling	ng Rolacivo Bano	Effict(n) on	Atmo-Ma	Marine Jettisoning(3)	for Transfar to
Control of the cast on the cast of the control of t	The state of the s	3	ALL STREET STREET	٠	4	1104 C 151 C 151 C
Nono	Excellent	NA NA	£	RN H11	1 Excellent	Excellent
Compacted	Excellant	Poor/good(2)	NAT	NIT NIT	1 Excellent	Excellinit
Shreddor	Excellent	Pair(1)	N11(1)	NII NII	l. Excellent	Excellent
		•				
Shraddar/Compactor	Bxcallent	Fn1r/good(1)	nf1(3)	TAN TAN	I Exea) Tont	Excellent
Incinerator	Exco.lont	Excollent	NII	 		Excellent
3n addar/Incinprator	Excollent	Shrodder: [ulr(1) Inclibrator: excel- lont	WA(1)	I TN I TN	l Excellent	Excallent

(1)Largo bundlos of wool felt or clot. should not be fed at one the shredders in order to evolul jamming or clogging of the units. (2)Varius, depending on component.

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PACKAGING MATERIALS DISPOSABILITY RATINGS

A CONTRACTOR OF THE SECOND SEC

GASKET MATERIALS

Commences and an annual franchista for the statement of t	Returks				*	
-	Rouse Capability	M.1.1	й11	<u> </u>	TIN	NIK
	Common End Using	Puels & lubricants containars & accessories	Bool & packing for installation of akeraft windshiplat, panella, & windswa	Aype I; heavy duty bolted or threaded joints auch as ateam & where pipe fitting & manifeld connections; for tumperatury auch or irregular parts such or irregular parts such or irregular parts such of light atampings, unfinished castings, or roaling at lowest cost where low temporal. Type III untreated; spaces, dust barriare, aplash such that barriare, aplash such not abjectionable; treated; maching or reasonable unicom flanges, here such dequate bolt, pressures ern be applied; relating strungth paralit use of thin gaskets to allow good allgament of covers & connected parts	Gum tight connections in gus mook cannisters	For use in joints of non-walst- tight & watertight ventilation ducts, and as a fraying or insulating material between dissimilar matals
Applicable Specifications	Hatorial Cherical Composition	Rubber, synthatic		Type II annumius or other inorganic (lbets) Type III cellulose or other orginic fibers, unfronted and treated.	Rubborr, hatural or synthatic	Mool folts other component unidentified
lyke 977-diskytten avist 8 tellika, hald myllin, samtik kyten diskulliskin kytensten ett vik	Specification Title	Gaekets, synthetic rubber (for fuel & lubricant containers & eccepacios)	adha- cork		Ganketn, rubbar	Gaskut material, wool inlt, impres- nated, adhesivo, pressure-sensitivo
	Spool Kienfion No.	HIL-G-M38	ML-6-6841	NI L-G-12803	MIL-G-13210	MIL-G-20241

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PACKAGING MATERIALS DISPORABILITY RATINGS

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INDICATORS

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Applicable specifications	Rufer to n	ext page	PARTY AND THE PARTY OF THE PARTY CONTRACT OF THE PARTY OF	-				
Chemical Name & Compout	Rafar to n	oxt pago	and the second terms of the terms of the second	***************************************		************	erendance stat francisco tel constituto appropriate aprinces. Security	
Cownon End Uses		KC page	and a section of section and section section is a section of the s	a the stands of the same	-	****		
Rouse Capability		Rafer to seek pade	and distribution the second register of the second register of the State of the second register of the second regi			4		
Spucific Gravity, approx		1у птопу сопропепты - А	dunimum: 2.7, Drags: 8.	4: Reddy	er: 1.9	8.4; Rubbar: 1.3: Paper: 0.7 ta 1.15	۲۰۱۶	
Bulk Denatev, 15/ft3, a	Approx NA		and the second second between the comment of the second to the second to the second se					
-	N. 1							
Diodogradability		плом		-			resonant was mad the set of bottom (A , a) homespeed a part of material or	
Collous tibility	Motal & cob	Metal & cobaltone chloride, Nil: other	ther components; excellent					
Heating Value, Btu/lb,	Composionts	other than metal & cobm	othor than metal & cobaltous chloride: vary widely		- 7.700/20,coc	2,000		
Shreddability	HIL-1-26860	MIL.I-26860: Unnuttainctory: MS-20003: Excellent	0003; Excellent		,		na destantiva, en amino 3,4 - de universa de companyon de constituir de la desta de la desta de la desta de la	
Compactability	. NIL-1-26850	1 Good: MS-200031 Good						
			-		i di di		The second party of the surface party and the second party of the second	
Sulfur, A, approx	Metal & cob	baltous chloride, Mil; other components:	up to	aa much	25 25	as much as Est for some component	compenents of rubber	
	Prediaponel P.	4.		Environmental	Leanca	Diaposabil	Dieposability Roting Viv	
	Shibb	_		Inpact	Ct.			
Shipboaxd Disposal Processing Equipment	Enso of Prehandling		Effect(s) on cossing Equipment	Atmo-	Marino	Atmo- darano Jettisoning	for Transfer to Slore Base	
Nona	Excellent.		1	\$	TH	Excellent	Macellont	· .
	man amount of the state of the	A consideration of contrast personnel particular productions of contrast personnel per	A11.1			10000	Porte 1 and	
Compactor.	Exceller.	2005		1	1	, , , , , , , , , , , , , , , , , , , ,		
Shreddor (1 callant[1]	Excellent(1)	N1.1.	NII	N\$ 1	Excellent	Excellent	~ ~~~
"raddor/Compactor	Exculiens(1)	Excollent(1)	N1 1	N1 1	N£ 3	Breclient	Excollent	
Incinerator	Excollent(1)	Excellent(1)	N1 1	N. I.	178	Excellent	Excellent	
Shredder/Incinexator	Excellent(1)	Excellent(1)	18.1	Nil	Nil	Excellent	Excellent	
		The state of the s	eran unabab-tekspi (sap-assense mag Familyasy Spiny Spiny Spin	_				

Applies only to humidity indicator cards corresponding to MS-20005. From a practical viewpoint, used plug assemblies corresponding on MILIL26860, either in an "as is" condition or compacted condition. Can be best disposed of by either jettisoning or storage aboard ship for transfer to a shore base for further handling. They should not be fed into shredders or incinerators aboard ships.

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Packaging Materials disposasility ratings Indicators

ANTENNAME TOTAL ANTENNAMENT OF THE STREET, STR	Remarks	Dapending on type, otto, pluga capable of operating with internal air presentes to approximately 20 approximately 20 1b/102	
	Rouse Capability	77 X	W1 1
A des des s'années de la company de la c	Cormon End Uses	Plugs fitted into engino cylinders, barrier materials, rigid containers, drums, olc, to permit continuous inspection of relative humidity of sealed interior space	Indicates relative humidity; required for method 11 packing under methode of preservation, AIE,-P-116
Applicable Specifications	Matorial Chemical Composition	nuts, scrows; gaskets: rubber; nt plactic; rubber; humid, ne impregnated	With (Callulons) impregnated with (Callulons)
	Specification Title	Indicator, humidity, plug color change	indicator, humidity, cand, three spot, three spot, the pregnated sread (cobaltous atlorido)
3	specific, 116.	м15126860	£000/2-5M

THE SOLD SOLD SECTION OF THE SECTION

Packading Materials Disposability Ratings Miscellaweous Packaging Haterials

Rafer to next engo Refer to next engo Refer to next page Refer to next page Refer to next page	71.4, doponding on plantic		20,000		tic: up to 0.5系	tol Disposability Rating Vis	Impact Storing Aboard	ui pment	in Mil Exculiont Exc	Nil Nil Excellent Excellent	Mil Mil Excellent Excellent	Nil Nil Excellent Excellent	Nil Bacellont Excellent	Mil Nil Excellent
e i um de destreta de descripción de la compansión de la	lastics 0.9,	kee I Lant	tie: up to		5.15%; plas		11ity Prioce/al	Process in	ev.	N11	N11(1)	ni 1(1)	(C)1 IN	NE 1(1' 3)
noxt engo 1.10xt pago 1.0xt pogo noxt pogo	1.15; aluminum: 2.7; p	slow nil, other materials; excellen		fentins decreasing the contraction of the contracti	long then 6.1%; papor: 0.19%; plastic: up to 0.5%	L Procosal ng	Tage of Ornhandline Processing Fearbility	of Processing	<u></u>	rai r	(;)	Good(1)	Exce Llont	Excallant(1)
		Extranoly s		Falr Good	Atuainum: 10	principal Tunodistinal	Chiph	by Ships' Caruornel	Scollant			Excollent('I)	Extallent	Excellent(1)
Anplicable fpocifications Chemical Name & Composition Combon End Unios Resur Cospaniity	Specific Gravity, approa		Wating Value, Stafib, s	Compactability Unahredood Shredded	Sulfur, E. approx	en de la company de la contraction del contraction de la contraction de la contraction de la contracti		saing Equipment				mpa - tert		Shroddoz/Incinerator Ex

1) hasye bundles of planti films should not be fed at one time into shredders in order to avoid jamming or clogging of the units. 27 Negative buoyancy requised

(2)Aluminum is expected to mait at incinarator operating temperatures and to pass through grates into ashpit without adverse opera-

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Packaging matchials disposability hatings miscedia-heous packaging intrhials

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***************************************	Котакки	ŧ	
	Reuse Capability	Substantial 1y nil	Substantial— Iy nil
	Common End (1969	packaging of items requiring maximum procection from water vapor penetration; intended for use under applicable packaging method if of appeciatention Mir. P-116, upucifically for floating bag applications, containers with both dimensions according 36 inches, or for packages with inspection windows	Windows for bags, sevelops, shrouds, or other floatible bar- tier material containers for busidity sensing devices pro- sented in water-vopor proof bur- tiers in uccordance with MIL-P- 116, meterials in accordance with MIL-P-116, method 1C for class 2 windows
Applicable Specifications	Chemical Composition) 	Somirigid, transparent, sheat material; palegar (cellviose) plus of unidentified lastic conting to the cellviose plus of the cellvio
*	Spocification ritie		Mindor, observation
serent articles and the serent serent	Specification No.	M16-2-6050	4. 1. 4 10. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

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PACKAGING MATERIALS DISPOSABILITY HATINGS PACKAGING HARDWARE (EX STRAPPING)

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(Applicable Specifications	Nefar to	naxt paya				A TO THE STATE OF	
Chemical hame & Composition	lon Refer to	noxt page	and the second state of an experience of an experience of the second state of the seco				A STATE OF THE PERSON NAMED OF THE PERSON NAME
Conson Ind Unex	Refer to	noxt page	A STATE OF THE PARTY OF THE PAR	-	-) 4:	The second secon	
Rouse Capability	Refor to	ct page	Service Control of the Control of th				
specific Gravity, approx	Varies W	ith metal or alloy, rangor	atael, 7.7 phosphor bronze, 8.9				
Bulk Dansity, 15/ft3,	שישורים אין אין		ADVINENTALISMAN ORGANISMAN ORGANISMAN SANTAN SA		***************************************		
Magnetic Susceptibility	01. 13	on: excellent; other metala; nil	lat ni l			, send "happengastongs distribution by des	
Blodegradabi 11ty	remel.	4 2 10%	deret and the desired of the second s	***************************************		ngarian yanin di kangalikanjilinga katapaten maran	
Combinatibility		a des a communitation de la communitation de l	and the state of the second		The transmission of substitution of the		
Reating Value, Btt/1b, approx Nil	approx Ni l						
Chrodital 110	(1)		nesse procession de con como de como de constitución de consti	-			
Compactability	Excellont.						
Bulfur, K, approx	NI 1	The state of the s					-
THE PROPERTY AND THE PROPERTY OF THE PROPERTY	Predlaposal) Processing		Environmental	untal	Disposabil	Disposability Rating Via
٢	deids	oard Processing Feasibi		Impact			
Shipboard Disposa). Processing Equipment	Ense of Prehandling	ing Ralativo Ease	Effect(s) on consing Equipment	Atmo- pphera	ine	Jettisoning(2)	foz Transfer to Shore Base
None	Excellent	NA NA	NA.	t	NI I	Excellert	Excellent
Compactor	Excellent	Excallent	Hil	Ni 1	L IN	Excellent	Excellent
Shraddar	Caution(1)	Excellent, caution(1)	Caution(1)	NI I	N1 1	Excellent	Excellent
Shredder/Compactor	Cau' , 7(1)	Excellent, caution(1)	Caution(1)	N£1	1 12	Excellent	Excellent
Incinstator	Caution(2)	Excellent, caution(2)	caution(2)	1 70	Ni 1	Excallont	Excellent
Shrodder/Incinerator	Caution(1, 2)	Excellent, caution (1, 2)	Caution(1, 2)	1 70	T FN	Exc⇒ llant	Excal lent
Carried and and the commence of the contract o		L		:	-		

or nuts should be fed into shredders which can handle these sizes readily. Large size mails. t be fed into shredders to avoid jamming the units. Materials made of tough alloys with poor (1) Only small alze nails, tacks, screws, or muts should be fed into snreausts which with the units.

screws, upikes, boits, etc. should not be fed into shredders to avoid jamming the units.

shear characteristics should not be fed into shredders.

(2) Small size nails, tacks, or acrows fastened to combustible materials fed into incinerators will pass harmlessly through the grates into the ash pits. Large size nails, scrows, spikes, bolts, or studs fastened to combustible materials should not be fed into inclnorators. のできた。 19 mmの 19 mmの

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(3) wherever possible disposal by jettisoning is preferred for this category of materials.

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PACKAGING MATERIALS DISPOSABILITY RATINGS PACKAGING INADWAPP (EX STRAPPING)

CHARLES CHARLES CONTROL OF CHARLES CONTROL OF A SECONDARY OF A CONTROL OF CHARLES CHARLES CHARLES CONTROL OF CONTROL OF CHARLES CONTROL OF CONTROL OF CHARLES CONTROL OF CHARLES CONTROL OF CHARLES CONTROL OF CONTROL OF CONT

est, spiriter energy state and the spirite spi	Remarks	Squaro or hex heads	ı			1	4
	Reuse Capability	N1.1	Limi tod	Limited	N1 1	I	NI I
a Specifications	Common End Uses	For fustening metal to wood, or wood to masonry	For insertion through holos in assembled parts and normally are tightened or released by torquing a nut	Used in various applications with nuts as fastening devices	Typical moos basket, clout, trunk bill poster, carpet, hide, lace, trimmers, upholsterers, cobblors, hob, hand shoe, nails and/or tacks	Typical: asbantos shingla, bar- rel, bost, box, broom, casing, coolarc, sinkars, corkers, con- ereta, fine, finishing flooring, lath, masonry, pallot, cluing, shingle, slating wallboard, fance, wetting, cobblars, etc	For asgembly with bolts and scrawe for application at normal atmospheric temperaturn
Applicable Specifications	Material Chemical Composition	Grade B: low-carbon steel; Grade C: corrosion-rusiatant steel; Grade D: copper-silicon alloy; Unconted; may have black oxide coating; Coated; zinc, cadmiun; phosphate corrosion-resistant bolts shall be passivated	Carbon and alloy ateel; corro sion resistant steel; nonferrous bolts; manganese bronze, phus- phor bronze, silicon bronze, naval brass, aluminum alloy, nickel-coppir alloy, nickel- required	Carbon steel unless otherwise apecified; corrosion-resistant steel. navel brass, aluninum alloy, mickel-copper, or other meterials, when so specified; uncoated; black exide acceptable; plated; zinc, cadalum; coated; hosphate, as raquired	Steal; copper as required	Steel wire, nails, steel, hard- aned, madium carbon steel, cop- par, coppor clad steel wire, alumium alloy wire, wrought iron and ateal, brass wire, all as required; coatings zine, chemical etching, blued, tin, brass or coppor plating, ail as	Stool, corrosion-rosistint steel, brass, aluminum alloy, nickel-copper alloy, and other materials as specified
	Specification Title		hexagon and	nock, thine: square td	· 1	and and	Musa, hoxagon and squara
	Specification No.	FPD-561					FF-N-326

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PACKAGING MATERIALS DISPOSABILITY RATINGS PICKAGING IBRDWARE (EX STRAPPING) (CONT)

ويقاربنا والمستندية وتستدريه ويتهاوا يرقيها والمتهامة والمتهام	Romarks		
	Reuse Capubility	25.1	, , , , , , , , , , , , , , , , , , ,
	Common End Usos	Goneral purpose full-threaded fasteness, utilizing class 2 and 3 threads	For use with standard bolts as essembly fastondris for reunable axterior shipping containers; assemblies are permanently installed in parts of skidt, oills, cleats, or other funtenting manages of the container, and bolte passing through paralls adjacent to the paralls in which the assemblies are secured; engage the through in the assembly assembly
The state of the s	Chemical Composition	Stuel, nickel-copper alloy, brass, corrosion-readintant shool, up appointed; protective finish; endering plating, oxide and black chemical finishes, an specified	Sarbon aten
Harmond of the Camera Commence of the Comments	Specification	yeneral	Figtener, motal,
***************************************	Specification No.	PP\$-1362	*116-4-4209

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PACKAGING MATERIALS DISPOSABILITY RATINGS PACKAGING MARDWARE, METALLIC STUAPPING(1)

Applicable Specifications	Refer to	הסאל באנים		,			
Chamical Name & Composition	Refor to	next page					
Common End Uses	Refer to	ext page				***************************************	
Rouse Capability	Refor to	naxt page					
Specific Gravity, appr							
Bulk Dansity, 15/ft7.	- 12	desiration of the state of the					
Mugnotic Susceptibility		is spokent statistic and straint has a same in the space frame described the same in the s			-		
Blodagradability		B.10v					
Combustibility		ganle coating					
Heating Value, Btu/15, approx	approx Nil; ax or	prox Nil; ax organic coating					
Shreddability	Good(3)	erritanista de la constanta de			-		
Compactability Unabreddod	Poor; much	ch springback	er varðarsteinninning til kepresjummingsteinska kladiging dærka peklag þek				
Sulfur, %, approx	N.1		A THE PROPERTY OF THE PROPERTY	***************************************			
	Predianos	al Processing		Environmental	ntal	Disposabil	Disposability Rating Via
Shipboard Disposal	ghte	r X	١. ١	Impact	•		Storage Aboard Ship
٠,	Ease of Prehandling by Ships! Personnel	ng Relative Eand	Effect(s) or Processing Equipment	Atmo-	rtne	Jettisoning(5)	for Transfer to
Kone	Fair(1)	2	1	IN NA. 1		Excellent	Uneatisfactory
	, (C.)			`			
Compactor	Fair(1)	Poor	.411	NII NII	1	Excellent	Poor
Shreddor	ratr(1)	good(3)	N11(3)	NI I NI I		Excellent	goog
Shredder/Compactor	Fair(1)	Good(3)	poog	NII NII	-	Excellent	pgob
Incingrator	Pair(1, 2)	Unsatisfactory(4)	Potentially harmful(4)	TIN TIN	_	Excallent	Unsatisfactory
Shredder/Incinera :or	Fair(1, 2)	axcellent(3, 5)	N1.1	NII NII	-4	Excellent	Good
(1) In order to avoid in	Jury, parsonnel st	(1) In order to avoid injury, personnel should observe unusuil precautions when handling waste metallic strapping.	scautions when handling	waste met	a111c	strapping, e.g.	Wearing aloves

Larga bundles of metallic strapping should not be fed at one time into shredders in order to avoid personnel hazard & clogging of the units. Unshradded metal strapping should not be fed into incinerators because the material will not pass readily between grates into the cab pit. Shredded matallic strapping will pass harmlessly between incinerator grates into the ash pit.

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PACKAGING MATERIALS DISPOSABILITY RATINGS PACKAGING HANDARRE, METALLIC STRAPPING

	()				
		Applirable Specifications			•
Specification No.	Spacification Titlo	Matyrinl Chomical Composition	Common End Uses	Reuse Capability	Romarks
	Stool strapping,	Steal, cold and/or hot-rolled depending on requirements	forcement or closure, or both. of shipping containers; securing the holding of compressed mate- the holding of compressed mate- the holding of compressed mate- loses or packaged materials into bundles or lifts, for internal bracing of materials in contain- ers, or light-duty and heavy-duty work in containers, or light-duty and heavy-duty work in power bracing packages or loses mate- rials in or on vehicles - Type I: mailless, light-duty, heavy- turyer type IV: light-duty, heavy-duty. Classes for above types as specified - Class A: coated-finish (organic); Class B: zinc-coated (galvanized), Grade Li heavy, Grade 2: standard; lishes C: uncoated	N£1	A highly detailed appointion
06-≈-1 90	Strapping, round; steel, bare and zinc- coated	ing, round; Carbon steel, cold drawn bare: bare and zinc-surface blue, brown, or bright, free of excess black oxide; ccated: galvanized (zinc-contod)	Bare; for use in locations where corrosion in short-term service is considered inconsequential; cated; for use in overseau shiptens or extended periods of storage under adverse climatic conditions	1	

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PACKAGING MATERIALS DISPOSABILITY RATINGS PACKAGING HARDHARE, STRAPPING, NONETALLIC

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Applicable Specificat	ons Refer to mixt	t page					
Chemical Name & Composition	ion Refor to	noxt pege					
Common End Uses	Refer to	next page	**************************************				***************************************
Reuse Capability		t puge	Z				
Specific Gravity, approx		Steel: 7.7; nylon: 1.12 typical; rayon: 1.6; glass: 2.5	ayon: 1.6; glass: 2.5				_
Bulk Dungity, 1b/ft3, approx		***************************************					
Magnetin Susceptibili	Ey Nil		*				
Blodegradability	Extremely slow	, AO					Andreas de la constitución de la
Combustibility	Nonmetals: e	: excellent; metal, glass: nil	: nil			*	
Heating Value, Btu/lb	, approx Other than m	Heating Value, Btu/lb, approxicther than metal and glass: 13,500					
Shreddability	Excellent						
Compactability	Good; nome s	c springback					
·~~	<u></u>	•					
Sulfur, %, approx	Up to 0.2%			-			
	Predisposa	Processing		Environmental	iontal	Disposabil	Disposability Reging Via
Ì	Shipb	wrd Processing Feasibi	lity	Impact	بد		Storage Aboard Ship
Frocessing Eq. ipment	Easc of Prehandling	East of Prehandling Relative East	Effect(s) on	Atmo- P	arine	Marine Jettiuoning	for Transfer to
	by surbe. Fersonner	OF Processing	Processing Equipment	ore			Shore Base
None	Excellent	%	V X	<u>-</u>	111	Excellent	Excellent
Compactor	Excellent	роод	N1 1	NII	N11	Excellent	Excellent
Shreddor	Excellent(1)	Good(1)	N(1(1)	Nil	Nil	Exce. lent	Excellent
	•						
Snreddør/Compictor	Exrallant(1)	Good(1)	N1(1)	I III	NT.1	Excellent	Excellent
Incinerator	Excellent	Excellent(2)	Ni 1(2)	N4.1	NEL	Excellent	Excellent
Shreddor/Incinorator	Excellent(1)	Excellent(1, 2)	N(1(1)	Ni 1	Nil	Excollent	Excellent
	_			_			_

(1) Large bundles of nonmetallic strapping should not be fed at one time into shredders in order to avoid clogging the units. (2)Metal connectors would be expected to pass harmlessly between incinerator grates into the ash pit.

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PACKAGING MATERIALS DISPOSASILITY RATINGS PACKAGING IGADWARE, STRAPPING, NOWETALLIC

Г				
	Remarks	-		,
	,	1	•	<i>.</i>
	Rouse Capability	N1.1		-
	Common End Uses	Reinforcement or closure of ship- ping containers, for securing or holding compressed materials in bales, for securing multiples units on skids or pallets, for bunding together loose or puck- aged material, for internal bracing of materials in contain- ers, bulkheading or tie-down lashings of containers, and for securing or bracing packages, loose materials, or equipment in closud conveyances - Type I: nonwaterproof, Grade A: regular duty, for strapping of materials undercover strapping of materials undercover or inside storage; Type II: for oversess shipment and long-term storage		
Applicable Specifications	Material Chemical Composition	rein- rayon, lith or or		c .
	Specification Title	Strapping, nonmetal-	-	*
	Specification No.			

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PACKAGING MAFERIALS DISPOSABILITY RATINGS

Pallete

Applicable Specifications Chemical Name & Composition	Rofer to	next, enge	A PARTY OF THE PAR				
Common End Uses	-	noxt of a]		y
Reuse Capability		•	fiborboard: occasionally only				
Specific Gravity, approx		Wood: varios with species, 0.4.0.	0.4-0.75; fiberboard: 0.7-1.15; steel: 7.7	5; stee	1: 7.7		
Bulk Donsity, 15/ft3, approx	H						
Magnetic Susceptibilit	-		بوياساري بإيسان المراق المساول والمساول والمساول والمساول				
Diodegradability	L	ulow	***************************************				
Combustibility		excapt for motal components	nonte				
Heating Caluo, Biu/lb, approx	<u> </u>	Wood: 8,500; fiberboard: 7,800	وارد والمستدر المتوازية والمتواد والمتواد والمتوادي والمتواد والمتود والمت والمتد والمتواد والمتواد والمتواد والمتواد والمتد والمتواد والمتواد والمتواد والم				
Shreddability	Excellent()	[1]					
Compactability	Woods excel	Wood: excallent(1); flberboard: good (1)	ood (1)				
					•		
Sulfur, %, approx	Wood: 0.158	Wood: 0.15%; fiberboard: 0.15%					
	Prodlaposa	Prodisposal Processing		Environmental	menta 1	Disposabil	Disposability Rating Via
Chinhand Bi anonn 1	adius	card Piscossing Feasibi		Impact	t		Storage Aboard Ship
ند	Easo of Prehandling by Ships' Personnel	idling Rolative Rase	Effect(s) on	Atmo-	Marine	Atmo- Marine Jettisoning	for Transfer to
		+7	Action of the Country		-		מימיי מייטנים
e co	Excellont(1)	<u> </u>	Ź	£	Kil Kil	Excellent	Sxcollent
Compackor(5)	Excellent(1)	Wood: excellent Elberboard: good strapping: poor	NI I	Nil	NT.1	Excellent	Excellent
Shroddor(4)	Excollent(1)	рооб	81.1	NIJ	NII	Eire 11ent	Excellent
Shredder/Compactor(4)	Excollant(1)	Woodr oxcallent. fiberboard: good-	NII	NLI	NII	Excellent	Excellont
Incinetator (3)	Excallant(1)	Wood/fiberboard: excellent; strapping; unsatinfactory	માં 1	NI 1	H11	Excellent	Exce Llont
Shroddar/Inginarator	Excollont(1)	Excellant	N£1	NI 1	N£ 3.	Excellent	Excellent

(1) In order to avoid injury, ship's personnal should observe unusual pxt.nutions when handling wasto metallic strapping; e.g., wearing gloves and taking other proventive measures as required (2) Applies only to pallets deteriorated to rejection level and which must be reduced to sizes small enough to fit into feedhoppers of

(3)Unniradded motal strapp is abould not be sed into compactors or incinerators.
(4)Large bundles of metal a rapping should not be sed at one time into seadhoppers of shredders in order to avoid personnel hazard and clogging of the units. THE REPORT OF THE PROPERTY OF THE STATE OF T

一個教育的情報をはははは、人の人名となるとはないというないないないのは、それというできると

packaging raterials disposability ratings. Pallets

	Remarks	Type I: pallots complote and ready for use when delivered; Type II: pullets complete and ready for use after field.	Typo I: pallets complete and ready for use when accepted by Govorbment; type II: components to be sized and finished as required and furnished with aufficient hardware for field assembly	Knock-down type, tor consolidation con- tainere
	Rouse	t 224	Excellone	orcasione i returnable item
	Common End Uses	General materials handling operations in military storage and distribution system where 2 way or partial 4 way entry is required by conventional materials handling mobile equipment; may be used for long-term storage in both covered and uncovered ansame	Genoral materials handling cpurations in military storage and distribution system, where full fawy entry is required by conventional materials handling mobile equipment; may be used for long-term storage in bath covered and uncovered areas	Containors or consolidating meny chall itoms for air shipment
Applicable Specifications	Material Chemical Composition	**	Wood; cellulose and lighth; uso of many apecies of woods parmit-tud for low, medium and high density word groups, preservative unidentified; moisture, control limits.— Class 1: 22% max. suverage; Class 2: no restrictions; nulls: hardened steel, meeting FF-N-105, type II, style 18	
	Specification Title	rial rdwood, struc-	Pallets, material handling, weed post construction, 4-134y e: 'ry	pallet, box, fibor- board, expendable for air shipment
	Spacification No.	ить-Р- <i>393</i> 8	HIC-P-15011	M11P26518

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PACKAGING MATERIALS DISPOSABILITY RATINGS PRESERVATIVES

Applicable Spocifications	ons Refor to		page						e de la companya de	
Compon End Uses		next of	next page			-	,		***************************************	
Rouse Capability	Refer to	noxt 'po	ige		,					
Specific Gravity, approx		varies	widely ameng pr	oduci	ts transfer				And the second s	,
Bulk Density, 1b/ft3, approx	Approx NA	1.				-				_
Magnotic Susceptibility	y Nil									
Bindegradability	Extremely	y slow						***************************************		
Combustibilitry	£									
Hoating Value, Btu/lb,	approx M			١.	A to the second					
Shreddability	52					-			and the second of the second o	
Compactability	. NA		· ************************************							
		,			-					
Sulfur, %, approx	Ş		A series de la companya de la compa		A THE REAL PROPERTY OF THE PERSON OF THE PER		-	* Company		
Variable of the latest property of the latest	Prodiapo	Pr	Processing			Enviro	Environmental	Disposabi	Disposability Racing Via	
Γ	r(S)	ard	Processing Febr	ibility	1ty (1)	Impact	ıct		Storage Aboard Ship	_
Processing Equipment	Ease of Prehandling		Rolative Ease	 - -	Bffact	intmo-	Marino	Jattisoning		
	oy Surph Paraon		Or Precediating	1	Froces and Edulphone	Spucke			Shore Base	
Rone	fxcal lont	£			·	Я	. TIN	NA(2)	Excellent	
Compactor	NA.	2			NA.	ឌ	Ħ	, M	Excellent	
Shrodder	KP.	§.		-	NA.	2	ž.	Z	Excellent	
Shradder/Compactor	WA	É	American de la Companya de la Compa	-	NA.	ź	Z	NA.	Excellent	
Incinerator	S 2	\$		-	SA.	Z	S	NA	Excellent	
Shredder/Incinerator	ধ্য	\$,	2	N.	Ę	2	NA	Excellent	
(1)Compaction shradding	Service Sections	926 00	ant boyablance		and the third categories					_

Also refer to MAVSUP publ 4500 CHIL of 1 July 1973 (1) Compaction, shrodding, and incineration are considered inapplicable for this category of packaging material.
(2) Used materials and rejected contents of depleted container, of materials cerresponding to: A. specifications VV-L-800, MIL-L-3150, MIL-C-6529, and MIL-L-21260 should be transferred to the ahip's waste oil tank for storage and transfer to a store base for further handling and never should be jettioned: B. specifications MIL-C-16173, MIL-P-46046, and MIL-G-81322 should be retained in containers for storage and transfer to a snore base and never should be jettisoned. Also refer to MAVSUP publ 4500 cure of 1 July 1973 for supplementary guidance. HONSTON HER CHARLES CONCION WHILE IN DESCRIPTION TO THE PROPERTY OF THE PROPER

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PACKAGING MATERIALS DISPTABILITY RATINGS PRESERVATIVES

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		מוחידה של של מילידה של היילידה של הייליום			1
Specification No.	Specification Title	Chamical Composition	Common End Uses	Capability	Remarks
VV-L-800	tor	11.	Tubrication and protoction against corrosion of certain small arms and automatic weapons	NI 1	ı
MIL-L-3150	Lubrica ting oll, preservative, modium	Lubricating oil, Petroleum fraction with addi- preservative, modium tives as necessary to meet per- formance requirements	Experiention and protection a against corresion of ferrous and nonferrous metals, interiors of gear assemblies, transquantons, differentials, etc., not intended to internal combustion and insertations.	N3.1	
HIL-L-6085	inbricating oil, isstrucent, aircraft, ica volatility	Inbricating oil, Dibasic acid estors with addi- istro.ent, sircraft, thos as necessary to most per- ica volatility formance requirements	For alreraft instruments, olsc- tente equipment, or where a low evaporation oil is required for low and high temperature appli- cation	N11	
	afrerat, engine	Corroaton proventive Typo I: concentrate material; afrerat engine type II: ready-mixed material; type IXI: ready-mixed material	Type It one part plus three parts: MIL-L.6082 for recipro-cating engines, MIL-L.6081 for recipro-turbojet engines; type II: for reciprocating engines; type II: for for jet engines; above constituted corrosion proventive lubricants.	RLI	t
MIL-G-87322		Wide temperature range liquid lubricant with a high melting point golling agent, no other identification	Wheel boarings in internil brake wheel desomblies, antifriction bearings, gear boxes, plain centings of alxerafu; for temp-aratures: -65 to 350" P	N. I.	4
HIL-C-10382	corrouton provontive, prerotating application; for food handling machinery and equipment	Component Weight & Petroleum, white microcrystalline wax ranolin, USP 10.5±0.5 1.hydroxysthyl=2 0.5±0.05 2.heptadecenyl inida- 2.amino-2.mathyl- 0.5±0.05 1 propanol Dry cleaning sulvent To make P-D-680 type I 100%	Pra vention of corrosion of food handling mad inery and equipment during atorage	N. 1.	1

TO THE SECTION OF THE

Packaging materials disposability ratings preservatives (com)

		A to the second	The section of Contains sections and antimode products between the section of the		
Speci Heation	Specification	MAPOTIA SPECIFICACIONS		00,00	, , , , , , , , , , , , , , , , , , ,
.cy	(Chemical Composition	Common End Uses	Capability	Aging E Ass
NIL-G-16924	Graves, automotive	petroloum ail with soap thick-	Lubrication and surtace corro-	N£ 1	
	and artillory	ener to meet requirements; must	alon protention of all automo		
	- Change	ada all uranica	cive and artillary equipment	-	
			rance of "Ed to topp, p. 10t		
			intended for use on machinery		
750			coming into sontact with foods		
315-1-170	contourd petrolatum	Patraloum modified to meet	corrosion of mili-	NET	
-	bot application	Service of service of the service of	cary equipaent		
		1. Noted film			
		10 10 10 10 10 10 10 10 10 10 10 10 10 1	storage or gun takeds, are; pro-		~
ata ara		7. 07. 07. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
			packaged or unpackaged; tong:		
			Carm thucks because or sugary	*	
_			mochanisms		
-	,		Class 18, as for class 1 and		
	•		alac culmarine hallact tracks		
			Class D. mobiled to this cities		
		_	ביומות כיו מוופוודת דמתמי מת המסב פרסבי		
			age of macerial at temperatures		
			not exceeding flow point of		
سِيد		-	material; for packaging of auto-		
.			motive parts, ote; for storage		
			under conditions where class 3		
-			in too soft or has too low melt-	-	
			Ing point		
			Class 3: preservation of anti-		
			friction bearings; on machined		
		-	surfaces for which a protective		
			material that is brushable and		
	•		hasily removed, is required		
Min-Cator (02) Compound	compound, gun	Not apacition	Corrosion preventive for ferrous	NIL	1
	Surunta		and nonforrous metals in indefi-		
-			Lico storage, Indoors and out-		
شيدو			dooxs; not application in thin		
2010			coats		
00212-7-718	indergating of it.	Potroloum base lubricating oil preservative and	break-in use	MI	Typo I oils for use
	Internal compacton	plus lunctional additives (deter-	for reciprocating mpark ignition		in all engines opera-
-	engine, preservative	gench, dispersants, oxidation and	and compression ignition engines		ting at output levels
	and break-in	corrouson inhibitors, etc); type	in all types of ground aguipment		150 B/15
-		I and II lubricante must contain	at temperatures above -10° F		BHEP; type II for
		a zinc dialkyl or diaryl phosphate			compression ignition
in the same		or a comprisacion engrapr			engines operating at
					output lavals above
					approximeterly 130 Lay
		**************************************	- Lander - The second of the s	-	27.50

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PACKAGING MATERIALS DISPOSABILITY RATINGS PRESERVYTIVES (CONT)

	Remarks	ı			Pracautionary mea- sures when applying; avoid une near open (liemes, nparks, or cutting or welding operations; avoid breathing of vapors; avoid prolonged or repeated contact with skin
	Reuso Capability	NI I	1 T N	Antonio Antoni	
	Common End Uses	High and low temperature opera- tions of: ball, roller, and neodle bearings, gears, sliding surfaces of cameras; electronic gear, and aircraft control sys- tems; functional becween -65 to 160° P	Pressrvation of automotive hydraulic brake systems of vehicles in storage; also a packaging fluid for both wheel cylinder and master cylinder assumblies	-	
Applicable Specifications	Material: Chemical Composition	Low temperature lubricant with a golling agent	Compo- sitton No. Castor oil, 3-methoxy butanol-1, borax glycol condonsate, antioxidant Castor oil, b, B'- methoxy-methoxy athanol, borax glycol condensate, antioxidant	2 Castor oil, diathylane glycol mono-mothyl ather, othylene glycol mono-mothyl ather, othyl col condensate, di-Ti butyl-P-crasol, M-cresol butyl-P-crasol, M-cresol butylable antickidants include hydroguinone, 2.5 diterciary-butyl hydroguinone	Grade 1: asphalt compound dis- solved in petroloum solvent; solved in petroloum solvent; solved in petroloum solvent; grade 2: ambor-colored compound disable covilingens; for drage preservation, indoor solvent dispersed compound plus are the purpose preservation, indoor solvent dispersed compound plus are dragetic and oversess ship. placing characteristics: sxivit; sant where a "iry-tc-touch" film solvent dispersed. saber-colored is required; grade 2: (a) for interial which ransing transpar- extended undercover protection of interial which ransing transpar- extended undercover surfaces of interial which rispersed cor- machinery, instruments, bearings for colvent rispersed cor- forms of subplamentary instruments, bearings forms of the compound which or saterial with or without use forms of the compound which of supplamentary barrier mate- firm of sa evaporation of solvent rials; (b) for outdoor protection (cont on mext page)
Applicate Service of the contract of the contr	Specification Title	nd	Proservative fluid automotive brake bystem and coupo- nents		Corrowion proventive compound, solvunt cutback, cold appli-cation
	Specification No.	MIL.G-238 <i>21</i>	MIL7-40046		MIL-C-16173

The bill be the standard of the section of the section of the section of

packaging materials disposability ratings preservatives (cont)

of material for limited pariods where metal for limited pariods where metal temperatures do not reach lavels which produce pro- hibitive flow of the corrowion praventive flow of the corrowion praventive flow of the corrowion tion must be displaced from corr- solon prevented or arrouted; (b) for protection of interior numitions of machinary, instru- manta, or material under cover for limited periods; (c) for protection of critical base stool or protection of critical base stool or limited periods; (c) for protection of critical base stool or limited periods; (c) for protection of critical base stool or limited periods; (c) for hosphated nurfaces for ex- tended porlods when packaged with satisfactory barrier mate- rials (Note: use grade 5 on metals which may be attacked by an slaning tramoval stage. The chamics. "boil-out" is alkaline and is use should be avoided with materials as alumium and magnetium alloys); grade 4; (a) for goneral purpose indoor and limited outdoor preservation of corrodible metals with or without as tenck-free coeting; (b) where a transparent coating is requires a tack-free coeting; (b) where a transparent coating is required in addition to pro- peries inducated; grade 3 corro- handling, absolute stade 5; for use in placetter; grade 5; for couries in place of grade 5; for use in placetter; grade 5; for compound where	Spac, fication Specification	Applycable Specifications Material		Rouse	Remarka
of material for limited periods where metal temperatures do not reach levels which produce pro- hibitive flow of the correction preventive flow of the correction use where water or callin solu- tion must be displaced from cor- solup preventive flow grade 3; (a) for use where water or callin solu- tion must be displaced from cor- solup prevention of interior auriacus or material under cover for limited periods; (c) for protection of certifical bare steel or phosphated surfaces for ex- tended poriods with packaged with eatlafactory harrier mate- rials (Note: use grade 5 on metals which may parkaged with such materials as alkaline and steel use should be arthwided with such materials as alkaline and limited outdoor preservation of correction purpose indoor without an overwap and where handling, stacking and counting requirement for misclailith with libiticating oil and where casting (b) where a transparent coating is required in addition to pro- porties indoctant of reads solu- soluting required in althy with libiticating oil and where each indicating oil and where see of removal with stoddard's sol- von's is important; qrade 3 corre- than in parevity canny! "canny" for ally parties and preventive canny hare chaster for misclaility with libiticating oil and where sore of removal with stoddard's sol- von's is important; removed and no preventive canny hare chaster or preventive canny hare chaster or preventive canny hare chaster or preventive canny where	Titia	Chamica, Composition	Common End Uses	Capability	
whore mottal temperatures do not reach levels which produce pro- hibitive flow of the correction preventive film; gards 3: (a) for use where water or calline solu- tion must be displaced from corre- sion prevented or arreated; (b) for protection of interior auriacus of machinery, instru- ments, or material under cover for limited periods; (c) for protection of critical bare steel or phosphated surfaces for ex- tended poriods; (c) for protection of critical bare steel or phosphated surfaces for ex- tended poriods; (e) for protection of critical bare steel or phosphated surfaces for ex- tended poriods; (e) for protection of critical bare steel with eatlafactory barriar mate- rials (Note: use grade 5 on metals which may packed by an allalian treatment-during the chemica. Faoil-out is alkaline and iste use should be arbuind and indicted outdoor preservation of corrollabe metals as alumina, and limited outdoor preservation of corrollabe metals and counting requirement for misclailition to pro- portical indective conting is required in authoriant conting is required in attansparent coating (b) where a transparent coating is required in addition to pro- portical indective conting is required in aid whore ease of removal with stochard's sol- von's is important; grade 3 corro- sion preventive camity camit where change is mportant; camit for misclaility cannot alon preventive camity camit in			of mnterial for limited periods	3_	
hibitive flow of the correction preventive flow of the correction preventive flow of the correction preventive flow of the correction where water or saline solution must be displaced from correction prevented or arrested (b) for the correction of interior auxfaces of machinery, instrument, or material under cover for limited periods; (c) for for correction of critical bare steel or prophated extracts (c) for prophated extracts (c) for correction of critical bare steel or protection of critical bare steel or protection of critical bare steel or when packaged with such afactory barrier materials which may be attacked by an alkaline and its use should be avoided with such materials us aluminum and magnetium alloys); grade 4; (a) for general purpose indoor and its use should be avoided without an overwap and where without an overwap and where is not its requires a tenisparent coating; (b) where a transparent coating frequires a tenisparent of counting requires a tenisparent of item (a) aboves (c) where three is no required in aidedition to properties indeced in steed of correction of materials in the very lubricating oil and whore ease of removal with stoddard's solutive and almited or miscribility with lubricating oil and whore ease of removal with stoddard's soluting where is no requirement of an item (b) aboves (c) where there is no requirement of miscribility with lubricating oil and whore ease of removal with stoddard's soluting in prevented compression of an item (c) where the will be an or			where motel temperatures do not	-	1"
preventive film; grade 3; (a) for use where weer or caline solution must be displaced from corrodble aurfaces and the corrosolution must be displaced from corrodble aurfaces and the corrosolution prevented or arceted. (b) for prevented or arrested; (b) for prevented or arrested; for inited periods; (c) for prevented poriods when packaged with each fafetcher; barries for extended poriods when packaged with each fafetcher; barries materials (Note: use grade 5 on metals which may be attacked by an alkaline treatment-during the preservative removal stage, The chemical whom was aluminum and its use should be avoided with such materials as aluminum and its use should be avoided with such materials as aluminum and its use should be avoided with such materials and where hundling, atacking and counting requires a transparent coating is required indicated in item (a) about (c) where three is no required indicated in item (a) about (c) where three is no required indicated in item (b) about (c) where three is no required in prevented in staddating vent is simportant grada. For ush in place of grade 3 corrosolute win place of strade 2 corrosolute where the content of the place of strade 3 corrosolute where the content of the place of strade 3 corrosoluted where the content of the place of strade 3 corrosoluted where the content of the place of strade 3 corrosoluted where the content of the place of strade 3 corrosoluted where the content of the co		*******	hibitive flow of the corregion		
tion must be displaced from corricodible auxigees and the corrosorolly of for p-ortection of interior marks, or material under cover for limited periods; (c) for provection of critical bars steal or limited periods; (c) for provection of critical bars steal or limited periods; (c) for exprection of critical bars steal or hosphated murfaces for extended poriods when peakinged with actisfactory barrier materials (Note: use grade 5 on metals which extended periods when peakinged by an alkaline treatment-during the pressrvative removal stage, The chamics. "boil-out" is alkaline and its use should be avoided with such materials as aluminum and its use should be avoided with such materials as aluminum and its use should be avoided with such materials and counting requires a tack-free costing; (a) for general purpose indoor or without an overwap and where handling, atacking and counting requires a tack-free costing; (b) where a transparent coating is requirement for material into poor perties inducated in item (a) about (c) where there is no recovering and preventive compount where cannot be allowed by induce of grade 3 corrosous is in place of grade 3 corrosous allowers the important; quado 5; for use in place of grade 3 corrosous allowers.			preventive film; grade 3: (a) for		
tion must be displaced from corrodble sugfaces and the corrosolution by for protection of interior soft such correspond to the corresponding to the protection of critical bars stond or protection of critical bars stond or protection of critical bars stond or the safe factory barrier materials which eatisfactory barrier materials which eatisfactory barrier materials which eatisfactory barrier materials which eatisfactory barrier materials which materials as aluminum and magnerials as a luminum and magnerials as a luminum and magnerial eatisfactory forded 4; (a) for goneral purpose indoor and limited outchory preservation of corredible metals with or without an overwarp and where fam of corredible metals with or without as a tenck-free coating; (b) where a tenck-free coating; (c) where there is no requirement for mischelly with libricating oil and whore ease of removal with stoddaries as one voing the stondary stands of grade 3 correspands in place of grade 3 correspands in place of control as in place of grade 3 correspands in place of grade 3 correspands on preventive compound whore along the land of the control as in place of grade 3 correspands on preventive compound whore call of the control as in place of grade 3 correspands on preventive compound who compound where call on the control of court of grade 3 correspands on the control of the control of court of grade 3 correspands on the control of the control of grade 3 correspands on the control of court of grade 3 correspands on the control of court of grade 3 correspands on the control of court of grade 3 correspands on the control of court of grade 3 correspands on the court of court of the control of court of		*Re-	use where water or naline solu-		
rounce surrages and che corro- sounce of machiner; instru- markaces of machiner; instru- markaces of machiner; (c) for for limited periods; (c) for protection of critical bara steel or phosphated murfaces for ex- tended poriods when packaged with extisfactory barrier mate- rials (Note: use grade) 5 on metals which may be attacked by an alkaline treatment-during the preservative removal abage. The chemical "boil-out" is alkaline and its use should be avoided with such materials as aluminum and magnesium alloys); grade 4; (a) for general purpose indoor and limited outdoor prenervation of corredible meatals with or without an overwarp and where handling, stacking and counting requires a tack-free coating; (b) where a trenhapment coating (c) where there is no portical inducated in item (e) nbove; (c) where there is no requirement for misclailty with libricating oil and where ease of removal with stoddards see alon preventive complound where changes in place of grade 3 corro- alon preventive compound where		\(\frac{1}{2}\)	tion must be displaced from cor-		;
		:	roding surfaces and the corro-		
			(h) for the sation of the for		
			Cartinons of machtons: Interior		
, and a second of the second o	=		Hearts. Or material moder somer		
1 24 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			for limited periods: (c) for		
			protection of critical bara steel		
	`		or phosphated surfaces for ex-		
1 24 5 5 E E E E E E E E E E E E E E E E E			tended portoda when packaged		
** 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등		-	With autiafactury barrier mate.		
क क व है । पू त त क क क क क क क क क क क क क क क क क		-	rials (Note: use grade 5 on		
			metals which may be attracked by		
		-	an alkaline treatment-during the		
ر الله الله الله الله الله الله الله الل			breservetive removal stade. The		
ят. б р. р. ф ін.			chemica, "boil-out" is alkaline		
4			and its use should be avoided		
			with such materials as aluminum		٠
g b b: t in		-	and magnesium alloys); grade 4:		
5 pr pri fi i h			(a) for goneral purpose indoor		,
vithout an overwap and where hardling, tatcking and counting requires a transparent counting [b] where a transparent coating is required in addition to properties indeated in item (a) above; (c) where there is no requirement for miscibilty with lubtic ting oil and where asse of removal with stoddard; sol- vant is important; grade 5; for usa-in place of grade 3 corre- alon preventive compound where change in "boil-count where		-	and limited outdoor preservation		ı
without an overwisp and where hardling, stacking and counting requires a transparent coating [b] where a transparent coating is required in addition to properties inducated in item (a) shove; (c) where there is no requirement for miscibility with lubricating oil and where asse of removal with stoddard; sol- vant is important; grade 5: for usa-in place of grade 3 corre- plant call "boil-out" cannot ha			oz correctore metals vith or		
requires a tack-free conting (b) where a transparent coating is required in addition to properties inducated in item (a) above; (c) where there is no requirement for miscibility with lubricating oil and where some of removal with stoddard's sol- vant is important; grade 5: for usa-in place of grade 3 corre- alon preventive compound where change in "poil-out" cannot he			handling stacking and counting		
(b) Where a transparent coating is required in addition to properties inducated in item (a) above; (c) where there is no requirement for miscability with lubrice ting oil and where ease of removal with stoddard's solwon? (s) important; grado 5: for use in place of grado 5: for alon preventivo compound whate change of grado compound where			TACTION B TROP (TOD DIXTING		
is required in addition to properties indicated in item (a) above; (c) where there is no requirement for miscibility with lubricating oil and where ease of removal with stoddard's sol- vont is important; grado 5: for use in place of grade 3 corre- chemical "boil-out" cannot ha			(b) Where a transparent costing		
perties indicated in item (a) above; (c) where there is no requirement for miscibility with lubricating oil and where ease of removal with steedard's sol- vant, is important; grade 5: for usa in place of grade 3 corre- alon preventies component where			is required in addition to pro-		
above; (c) where there is no requirement for miscibility with lubricating oil and where ease of removal with stoddard's solution; is important; grade 5: for use in place of grade 3 correction procedure of grade 3 correction place of grade 3 correction place of grade 3 correction place of grade 2 corrections and a compound where			perties indicated in item (a)	****	
requirement for miscibility with lubricating oil and where ease of removal with stoddard's solution. vant is important; grade 5: for use in place of grade 3 correction proventive component where chemical "boil-out" component where			above; (c) where there is no		
lubricating oil and where ease of removal with stoddard's sol- vant is important; grade 5: for use in place of grade 3 corre- alon preventive component			roquirement for miscibility with		
of removal with stoddard's sol vant is important; grade 5; for usa in place of grade 3 corre- plon preventive compound where chemical "hoil-out" has			lubricating oil and where ease		
vant de important; grado 5: for usa-in place of grade 3 corro- nion preventivo compound where chemical "hoi 1-out" "nonnet he			of removal with stoddard's sol.		
usa.in place of grade 3 corro- nion preventive conjound where chemical "boil-out" be			vent is important; grade 5: for		
chemical "boil-out" Cannot be			usa in place of grade 3 corro-		
			chemical "hot1 cut" cance he		

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PACKAGING MATERIALS DISPOSABILITY RATINGS TAPES

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Company was a second		t page		7			
COMMON FILE ORGE	1211						
Specific oxavity, approx	Varios wide	inding on	-pacific proprietary composition: 0.7/1.3	On: 0.7/	1.3		
717/64	anning Ma	AND AND THE RESIDENCE AND THE PROPERTY OF THE					
Magnetic Sugnertibility	7						
ntodogradability	Extremely o	low					
Combustibility	Excellent		,				
Heating Value, Btu/lb, approx 6.000/14.00	approx 6.000/14.000	, depending on proprie	00, depending on proprietary formulations used for individual tapos	or indivi	idual t	soda	
Shraddah (14to	Pycorlent						
Compactability	cowor (poop)	upring back					
			-	(
Sulfur, %, approx.	Up to 0.5%,	depending on specific	depending on specific proprietary formulation	4			
	(Asoas) book	w.odisposal Processing		Envlonmental	ntal	Disposabi	Disposability Rating(1) Via
	shi ohi	wed processing Passibility		Impact	L_ 		Steraga Abbard Ship
Shipt Dimpray!	The of propand that	Bolative Eage	'Effect(s) on	Atmo- 1.		Jettisoning	for Transfer to
υ υ	by Shipn' Personnel		rocessing Equipment	-	, ne		Shore Base
None	Excellent		A.	K K		Excellent	ראפסידישור
Compactor	Excellent	Good	NII	KII NII		Excellent	Excallent
Sh edder	Excallent	Excellent	T	N11 N11		Excellent	Excellent
Shradder/Compactor	Excellent	good	NII	N4.3 N4.1		Excollent	Excellent
Inclustator	Excellent	Excollone	нії	NII NI.	1	Excelient	Excellent
Shreddor/Incinerator	Excellent	Excollent	Nil	N11 N11	\top	Excellent	Excellent
-]				_	1		

(1)Refers to uzed or residual tape adhering to other packaging materials and also to unused tape no longer suitably utilizable. In general, tapes bonded to other packaging materials have substantially the same disposability characteristics as the materials to which they are bonded.

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PACKAGING MATERIALS DISPOSABILITY RATINGS TAPES

		T		1		_		Γ		_						T			?" T					Γ-							_
	Remarks						,,	*																				•			
	Reuse Capabílíty	Ni 1		ITN		NII		N11			ITM		Mil			Nil			NII				-	111				N i l			
	Common End Uses	Nonparmnent applications	Permanant applications	Type I: short term applications;	21012		type II: weather & solvent rosistant	reinforcing applica-	tions		Masking curfaces not to be	, H	aty bundling, holding, &			Sealing fiberboard boxes,	securing package wrappings,	banding of wire, pipe, hose, tubing, etc	Γ		proofing operations; type III:	protection Versus water pene-	tion unimportant	Γ	corrobion prevention applica-	sunlight, water, oils, solvents,	acids, & alkalies		purpose hold & sealing		
Applicable Specifications	Matorial Chemical Corocattion	Type I: cellophane (adhosive unspecified);	type II: ceilulose acotate (adhosive unspecified)	Atate-	t furbant on	-	acnosive	paper (gum ((water-activated) unspecified)		adhesive unspecified)				paper backing reinforced	lass, scal, or rayon &	aephalt laminate; adhesive unspecified	tion unspecified for	typer I, II, & III		_		Polyvinyl chloride or polyvinyl			-		grade vinyl plastic sive		
	Specification Títlo	rape, prossure- sensitive, adhesive		Tapo, pressure- secsitivo, idanti-		_	-	-p	ing & reinforcing		Tupe, pressure-		Tape, prossure-	sonsitive adhosive	(general packaging application)	r	reinforced & plain,	for scaling & socuring	Tapa, prossure-	sensitive adhesive,	waterproof for pack-	burge		Tape, pressure-	plastic film			Tapa, pressure-	grade vinyl plastic	taum)	
1	Specification No.	r-r-90		L-T-99		L-T-100		UU-T-101		the same of the sa	uu-r-106		PPP-T-42			PPP-T-45			09-I-ddd					PPV-T-466				PPP-T-0070	,		

Packaging materials disposability ratings tabes (cont)

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	nemarks	ř	, ,			
	Rouse	NII	nil	หนา	NII	N11
	Common End Uses	Scaling fiberboard cartons for packing & packeging; suitable at -65 to +160° F	Securing packages, reinforcing hundles & contairers	Protect aircraft missilos, rockots; type 7: oil & weather rosistant; type II: weather resistant (nonoil.surfaces)	Moisture vaportight send for fiber containers, cans, & slip-cover containers over range -66 to +155° F.	Similar to surve, but applicable at 0° P & perform over range -15 to +140° F
Applicable Specifications	Maturial Chemical Composition	Kraft paper backing plus unid- ontified @dhosive	Composition undisclosed; con- tains filaments, e.g., nylon, rayon, polyester, etc	ot apac-	tth 3 longi- aente	Composition unspecified, but plastic film backing used
	Spacification Title	Tape, pressure-: sensitive adhesive paper (for carton sealing)	Tape, pressure- sensitive adhesive, filament reinforced	Tape, pressuro- sensitive adhesive, preservation & sealing	Tape, pressure- sonuttive adhesive, plastic film, fila- ment reinforced	Tape, prossuro- sonsitive adhesive, for preservation & sealing
	Specification No.	PPP-T-76	FPP-T-97	MIL-T-22035 (WEP)	HIL-T-43036	MIL-T-43115

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PACKAGING MATERIALS, DISPOSABILITY RATINGS VOLATILE CORROSION INHIBITORS

				~		
Applicable Specifications	Refer to	next page	,	٠		
Chemical Nume & Composition	Refer to	t page				
Common End Usus	Refer to	next page				
Reuse Capability	ŝ	next page				
Specific Gravity, approx	ľýA		•			
Bulk Density, 1b/ft3.	approx RA	***************************************	3.7			
Magnetic Susceptibility	Г-					, , ,
Biod gradsbility	Extremely	slow(1)				
Combustibility(2)		1: nil; all others: ex	foil: nil; ail others: excellent			
Reating Value, Btu/lb, approx Aluminum		l: nil; all others: va	rios widely, depending	on composit	ion, 7.700/20,000	
Shreduability(2)	Excellent					
Gomp.ctability(2)	роод .					,
Sulfur, #, approx	Varios, depe	nating on composition,	Varios, depending on composition, ug. to perhaps 0.5% for oil type corrosion inhibitors	oil type co	rros on inhibitor	
A STANSON OF THE PROPERTY OF T	Predisposa	Predisposal Processing		Environmental,		Disposability Rating V.
	odatus	phoard Processing Feasibility	***************************************	Impact		Storage Aboard Ship
Shipboard Diaposal Processing Equipment	Ease of Prehandling	Relative Ease of Processing	Effect(s) on cessing Equipment	Atao-	Atao- Barine Jettieoning	for Transfer to Shore Base
None	Excellent(3)		ŧ .	N. N. 11	Nil(2) Excellent(2)	Excellent
		-	•			
Compactor	Excellent(2),(3)	Good(2)	N1.1	TIN TIN	Excellent	j j j
Shredder	Excellent(Q),(3)	Good(2),(4)	N11(4)	Nii Nii	Excellent	Excellent
Shredder/Compactor	Excallent(2), (3)		N11(4)	118 118	Excellent	Excellent
Incluerator	xcellent(2),(3)	Excellent(2)	nii	NII NII	Excellent	[xco]]ent
Shredder/Incinerator	Excellent(2),(3)	Excallent(2),(4)	(†)	NII NII	Excallent	Excellent

whey are to be rejected into Does not apply to oil-type corrosion inhibiting materials corresponding to MIL-I-23310 & MIL-L-46002 which are not to be jettisoned. (2) Materials corresponding to MIL-I-23310 & MIL-L-46002 should not be compacted, shredded, or incinerated.

the waste oil tank for transfer to a shore base for further, handling. Disposability rating by this method is excellent.

(3) The following precautions are to be observed by ships! personnel while handling materials meeting MIL-F-22019, MIL-B-22020, & MIL-I-22110: (A) Do not rub or wipe eyes when handling this product. (B) After handling, wash lands thoroughly with scap & water.

(4) Large bundles of plastic films or bags should not be fed at one time into shredders in order to avoid jamming or clogging the units.

Packaging materials disposability ratings (Volatile Corrosion Inhibitors

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,	Remorks	The following pre- cautions must be observed by ships! personnel when han-	(A) Do not rub or wipe eyes while and alling this product. (B) After handling, wash hands thorough.	Disposal: drainings to waste oil tank for transfer to shore base fur fur.	burrous raura	Disposal: drainings to wasto oil tank for transfer to shore base for further handling
	Reube	N11	N11 N11	N1.1	N£1	N11
	Common End Users	Protective package for pariod up to 24 months where trunsparency to facilitate inspection, is required 3	As above Preservative for selected classes of ferrous & nonferrous	alloys Preservative for closed systums busically made of ferrous or aluminum alloys; not intended as an operational preservative	Packaging items for indeter- minate storage & oversons ship- ment where high resistance to corrosion of ferrous matals is required.	Proservative for closed systems where protection of surfaces above oil lovel is required
Applicable Specifications	Naterial Chemical Composition	Plastic plus volatilo corrosion inhility, e.g., selected organic am'no	As above Solid form of vaporizing corrosion inhibitor, typically a	Relected organic amine Petroleum bare oil containing a volatile corresion inhibitor, e.g., selected organic amines	Pi stic, paper, aluminum foil, paper & selected organic amines, l'uminated fiberboard, & asphalt lomitos	Genorally similar to MIL-1-29310 preservative for closed systems which is intended specifically where protection of aurfaces for Navy use above oil level is required above.
	Specification Title	Film, transparent, flexible, heat scalable, velatile, corrosion inhibitor treated	Rags, transparent, flexible, sealable, volatile, corrosicn inhibitor treated Inhibitors, correstors, correstors, volatile,	crystalling Inhibitors, corre- aion, volutile, oil type	Bago, Marrior, with volutile corrosion inhibitor treated liners	Lubricating oil, contact & volatilo corrosion ighibiting
	Specification No.	MIL-F-22019	MIL-B-22C00	MIL-I-23310	HIL-B-40028	MIL-L-46002

Packaging Majerijis dirosability ratings Wrapping Materials (Other Waln Bankt & Katerials)

1)

Applicable Specifications	Refer to	noxt page					
Chemical Name & Composition	Rafor to	noxt page					
Common End Ussa		next page					, , , , , , , , , , , , , , , , , , ,
Reuse Capability	All specifi	rations: Acreantially	nil	-		,	
Specific Gravity, approx		Paper: 0.7/1.15; vax: C.9; 811 cone:	10: 1:05	-		-	AND STREET, ST.
		,					
Bulk Density, 1b/ft, a	approx KA					Market and a second sec	
Magnetic Susceptibili							
Blodegradability	Extramely	slm	T WARRING L'ANGESTING THE SOURCE THE SOURCE SERVICE SE	-			AND THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON OF
Contustibility	Excellant		AND THE RESERVE OF THE PERSON	-			
Heating Walue, Btu/lb,	405	7,500, wax; 20,000	The state of the s				
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Constitution of the property o	Management Streets A Street of order productions in the Contract C	L	J	-	7		

PACKAGING MATERIALS DISPOSABILITY RATINGS WINDPING MATERIALS (OTHER THAN BARRIER MATERIALS)

	Remarko		edit deprinant of particular property and appropriate deprinant of the second of the s		Address and the contract of th	of the state of th			And the state of t	And the control of the second control of the	
1	Reuse	Subscan- cially nil	Substan- tially oil	Substan- tally nil	Subaran- tially nil	Substan- cially nil	Substan- tially nil	Substan- tially mil		Substan- tially nil	Substan- tially nil
Applicable Specifications	Common End Usos	Bread wrapping & other self- soaling applications	initial verp for general weap- ping where chemically neutral, grease-water-vaporproof bar- rier is not required	Typo I: white paper for wrapping foods: type II: brown paper, general wrapping requirting a stretchable material; type III: brown paper, genecal wrapping purioses	Type I: initial wrap protection against break, scratching, dust-ing: type II: as for type I plus protection avainst ternishing	Wrapping & cleaning lenses, glass, & highly polished sur-	Fill voids; position items in containves; offer limited shock protection	Prochactive wright ar over gradon A & C, MIL-B-121 , reasurproof wrapper; contact wrapper where greasuproof barrier is not required; packaging wrapper where use of a carton would waste space; cover for radial waste space; cover	Wrapping & clanning lanses	For food & general packaging having moderate groups resis- cance is required; not a sub- stitute for Mil. 8-121	Initial wrap where noncorrosive, non-greateproof wrap is required
	Material Chemical Composition	Paper: colluloue, minimum 5 bleached chemical wood pulp: types I, II, III . 95%.	Paper: collulose	Paport callulous; wax: hydrn-calbon	Papor: callulosa	All typas: collulose; typo III; collulose, silicene treeted	Sapar: cellulose, wax: hydro- carbon	Papor: rellulose: Sonding agont: unapocifind	Paper: collulose	Colluloso	Paper: Gallulono
. Adversaries	Spocification Title	Papar, wzapping, wet waxed	ptng	Papor, wrapping, wax-imprognated (dry)	Papor, wrapping, tissuo	Rapar, lons		papar, vrapping, kaninato, & cripod	.pd:		Paper, weapping, chemically moutral (noncorrosive)
TARREST TORRESTOR OF THE PARTY	Specification No.	መ-የ-1%	₩-P-268	W-P-270		NN1 - P-40		41r-P-130	міг-т-13988		MIL-P-17667